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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

JANUARY - MARCH 1994

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

FIRST QUARTER 1994

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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December) by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each report.

The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. The AFOSR is organized under the Director, Science and Technology, Air Force Materiel Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement originating from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance of science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

Title - The title of the research proposal.

Institution - The organization, (e.g., college/university, company) at which the research will be conducted.

Investigator - The Principal Investigators proposing the research.

Type - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

Months - The duration of the research proposal.

Received - The month and year in which the AFOSR received the proposal.

Amount - The funds requested of the AFOSR for support of the research proposal.

Status - A - ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D - DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE - indicates the proposal is being reviewed.

- W - WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposer's request.

Program Manager - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

Proposal # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

Initiate - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

Star Date - The recommended date for commencement of the research.

Total Amount - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

PART 1

REPORT DATE 06/15/94

INSTITUTION INDEX (1 JAN 94 - 31 MAR 94)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

PAGE 1

STATUS - 'A' = ACCEPTED, 'O' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Adas Research Corp	Cites		Jeff	S	94-NE-103	D	WITT
APA Optics Inc	Boord		W	T	94-NE-105	D	WITT
AWA Associates, Inc	All		Abdul Wahab		94-NL-120	D	KROLL
Accu-Fab Systems of California, Inc	Volt		Peteroff		94-NM-122	D	JACOBS
Aerodyne Research Inc	Boon		Robert	C	94-NC-076	D	BERMAN
	Freeman		A.		94-NC-085	A	ERSTFELD
Air Force Institute of Technology	Bridgman		Charles		94-NI-012	A	SHELDON
					94-XP-003	A	HARITOS
					94-XP-004	A	HARITOS
					94-NM-167	A	JACOBS
					94-NM-146	A	WACHMAN
					94-NM-147	A	WACHMAN
					94-NM-105	A	SJOGREN
					94-NM-106	A	SJOGREN
					94-NI-005	A	HUGHES
					94-NL-121	D	KROLL
					94-NE-162	D	WITT
					94-NC-127	D	LEE
					94-NM-127	D	JACOBS
					94-NM-093	D	JACOBS
					94-NL-146	D	TANGNEY
					94-NM-125	D	JACOBS
					94-NE-093	D	POMRENKE
					94-NC-173	D	PECHENIK
					94-NA-103	A	SAKELL
					94-NA-110	D	MCMICHAEL
					94-NE-111	D	SCHLOSSER
					94-NL-122	D	KROLL
					94-NE-150	D	BARKER
					94-NE-123	D	WITT
					94-NC-105	D	WARD
					94-NC-118	D	LEF
					94-NE-142	D	POMRENKE
					94-NC-110	D	WARD
					94-NM-132	D	JACOBS
					94-NL-118	D	TANGNEY
					94-NM-128	D	JACOBS
					94-NL-075	D	DICKINSON
					94-NA-102	D	WU
					94-NL-083	D	KROLL
					94-NE-088	A	CRAIG
					94-NM-095	A	JACOBS
					94-NM-103	A	JACOBS
					94-NM-137	A	GLASSMAN
					94-NM-141	D	JACOBS
					94-NM-144	A	LUGINBUNL
					94-NA-081	A	MCMICHAEL
					94-NL-092	D	KROLL

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Case Western Reserve University	Pirouz	P.			94-NC-156		WARD
Center For Remote Sensing	Takefuji	Yoshiyasu			94-NM-175		GLASSMAN
	Ganguly	Suman			94-NL-068		KROLL
Civil Engineering Research Foundation	Majnoll	Carl		O	94-NL-070	D	LEWIS
Clemons University	Grujic	Mica			94-MA-093	A	WARD
	Larsen	Miquel		F	94-NC-114	A	KROLL
	Meriwether	John		W	94-NL-105		KROLL
	Rack	Henry		J	94-NL-106		WARD
Connitech Inc	Osher	Stanley			94-NC-117	A	NACHMAN
Colorado School of Mines	Miller	Arnold		R	94-NM-148	A	HART
Colorado State University	Cotton	William		R	94-NI-011		KROLL
	Etters	Richard		D	94-NL-137		BERMAN
Columbia University	Markaan	Arthur		B	94-NC-175		TANGNEY
	Turro	Nicholas		J	94-NL-145		HEDBERG
Competitive Solicitation	Haynes	Leonard		S	94-NC-125	D	JACOBS
Computational Mechanics Company Inc	Oden	J Tinsley			94-NM-123	A	JONES
Conductus, Inc.	Martens	Jon			94-NA-125	A	ERSTFELD
Cor-Tek Inc	Tayebati	Parviz			94-NC-138	A	WITT
					94-NE-164	A	SCHLOSSER
Creare Inc. Research & Development Inc	Majari	Patrick		J	94-NE-170	D	MCMICHAEL
Cygnus Laser Corporation	Pierce	Jeff		W	94-NA-109		SCHLOSSER
DPS Technology Co	Zhang	Tong			94-NE-117	D	SCHLOSSER
Ducco SCI Inc	Dacres	Chesler		M	94-NE-169	D	SCHLOSSER
Dartmouth College	Gupta	Vujay			94-NC-133	A	ERSTFELD
	Hughes	Howard		C	94-NA-085		JONES
	Makodon	Fillia		S	94-NL-117	D	COLLINS
	Osterberg	Ulf		L	94-NM-090	D	JACOBS
Daecon Research Co	Daecon	David			94-NI-010	A	HART
Defense Technical Information Center	Gonzales	Bobbi			94-NE-114	A	SCHLOSSER
Dept of Energy - Albuquerque Oper Office	Davidson	H. Tom			94-XP-005	A	BOGGS
Dupont Central Research Development	Jajota	Anand			94-NC-159	D	BERMAN
	Sarasilani	Sima			94-NA-095		LEWIS
Elek Dynamics Incorporated	Pan	J		J	94-NA-095		KOZUMRO
ERC Inc	Wu	Y.C.L. Susan			94-NE-109	D	SCHLOSSER
Elton H. Shumlen	Shumlen	Elton		H	94-NL-124	D	KROLL
Altron Research Inc	Sammells	Anthony		F	94-NM-135	D	GLASSMAN
Emory University	Maaven	Michael		C	94-NC-132	A	ERSTFELD
Energy Conversion Research Corporation	McIntyre	Ian		A	94-NC-143		BERMAN
European Office of Aero Resch and Develop	Innocenti	Mario			94-NE-108	D	SCHLOSSER
ExerTek	Fraser	Kirk		W	94-NI-009	A	ZARBO
Fed. Of American Soc. For Expell Biology	Misland	Richard			94-NM-120	D	JACOBS
Fishman Consulting	Fishman	Ilya		H	94-NL-073	D	TANGNEY
Florida A&M University	Jones	Herbert		M	94-NC-136	D	ERSTFELD
Florida Institute of Technology	Liu	Sheng		W	94-NC-145		BERMAN
	Thursby	Michael		H	94-NA-089		JONES
Florida International University	Cherepnov	Genday		P	94-NM-103	A	NACHMAN
Florida State University	Schwartz	Daniel		G	94-NA-130	A	WU
					94-NM-154		WAKSMAN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Colorad Corporation	Chen	Wei		94-NE-175	D	SCHLOSSER
Fluidic Motion Corp	Ralston	Lonner		94-NM-124	D	JACOBS
Focused Research Inc	Day	Timothy		94-NE-173	A	SCHLOSSER
Foster-Miller Inc	Dowd	Lawrence	M	94-NE-115	D	SCHLOSSER
General Electric Co	Levinson	Lionel	M	94-NC-174		PECHEMIK
General Washington University	Flacco	Anthony	V	94-NM-145		GLASSMAN
Georgia Institute of Tech	Bartholdi, III	John	J	94-NM-104	A	GLASSMAN
Georgia Tech Research Corporation	Flannery	Martin	R	94-NE-161	A	KELLEY
	Kumar	Satish		94-NC-164	A	LEE
London Research Conferences Inc	Kubas	Gregory	J	94-NC-160	D	ERSTFELD
Lumps Associates, Inc	Jang	Guang-May		94-NC-146		LEE
Harvard University	Makayama	Ken		94-NL-131		TANGNEY
	Silvers	Isaac	F	94-NC-167		TANGNEY
	Stronayer III	Charles	F	94-NL-132		LEE
	Wu	Shan-Tson		94-NC-161	A	WAKSMAN
Mathes Aircraft Corp Research Labs	Malpurn	Joseph	V	94-NM-097		CRAIG
IBM Almaden Research Center	Harris	Catherine		94-NE-185	A	JACOBS
IEEE Computer Society Press	Angle	Colin	M	94-NM-130	D	WEINSTOCK
IS Robotics Inc	Irelin	George	M	94-NE-141		KOZUMBO
Utah State University	Jarvi	Eric	J	94-NL-090		KOZUMBO
	Lai	James C.K.	G	94-NL-098		KROLL
	Rodriguez	Rene		94-NL-103		WAKSMAN
	Wolper	James	S	94-NM-165		TANGNEY
Indiana University/Bryan Hall	Bingham	Geoffrey	P	94-NL-133		GLASSMAN
Integral Solution Corporation	Earl	Colin		94-NM-131	D	SCHLOSSER
Intellixt	Seidel	Mary	C	94-NE-171	D	BERMAN
Itasca Consulting Group Inc	Heberlein	Joachim		94-NC-169		BERMAN
Johns Hopkins University	Dagdolian	Paul	J	94-NC-128		BARKER
Kansas State University	Carpenter	Kenneth	H	94-NE-151	D	NACHMAN
	Ramm	Alexander	G	94-NM-112		BERMAN
	Setsor	Don		94-NC-121		SJOGREN
Kent State University	Reichal	Lothar		94-NM-083	A	COLLINS
Knoxville College	Radar	Mark		94-NE-090		KOZUMBO
LSU Medical Center In New Orleans	Paratta	Richard	V	94-NL-104	A	HADDAD
	Greenberg	Stan	S	94-NL-091		COLLINS
	Prasad	Chandan		94-NL-102		ERSTFELD
	Thomas	Kavin	A	94-NL-103	D	KROLL
LYNITECH, Inc.	Gonzalez-Martin	Anuncia		94-NC-083	D	SCHLOSSER
Laser Diagnostics	Loje	Gary		94-NL-126	D	KROLL
Laser Power Corporation	Margis	David		94-NE-177	D	PECHEMIK
Laser Sense Inc	Kouillard, III	Fred Peter		94-NL-125	D	PECHEMIK
Lehigh University	Chan	Helen	M	94-NC-157		PECHEMIK
	Harmer	M.	P	94-NC-168		PECHEMIK
Light Solutions Corp	Hogan	Daniel		94-NE-176	D	SCHLOSSER
Lightwave Electronics Corporation	Gerstenberger	D	C	94-NE-113	A	FANT
Lackhead	Cunningham	Atlee	M	94-NA-127	A	BARKER
Los Alamos Nat'l Lab--Appl Theor Phys	Peratt	Anthony	L	94-NE-182		SMITH
Louisiana State University	Cherry	Michael	L	94-NE-158		

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INSTITUTION	INVESTIGATOR			PROPOSAL	STATUS	PM NAME
	LAST NAME	FIRST NAME	MIDDLE			
General Dynamics Corp.	Gale	Robert	J	94-NC-103		ERSTFELD
	Griffin	Gregory	L	94-NC-096		ERSTFELD
	Ju	Guokiang		94-NC-158	A	JACOBS
	Ikonis-Anastasiou	Kiki	K	94-NE-134		WITT
	Kalia	Rajiv		94-NC-123	A	BERMAN
	Li	Sen	Q	94-NE-143		POMRENKE
	Myrum	Tod	A	94-NE-159		SMITH
	Nikitopoulos	Dimitris	E	94-NA-120		FANT
	Overton	Edward	B	94-NC-141		ERSTFELD
	Warner	Istiah	M	94-NC-090		LEE
General Electric	Reynolds	George	H	94-NC-085	D	ERSTFELD
	MacLeod	Edward		94-NC-134	D	JACOBS
	Arjon	Ali	S	94-NA-091		JONES
				94-NA-092	A	JONES
				94-NA-172		JACOBS
	Dahleh	Munther	C	94-NC-158		WARD
	Dunand	David		94-NA-101	A	FANT
	Greitzer	Edward	M	94-NA-124		LEWIS
	Mei	Chiang	C	94-NA-171		JACOBS
	Willisky	Alan	S	94-NA-162		JACOBS
McDonnell Aircraft Company	Katz	L. Norman		94-NA-106	D	SAKELL
	Molt	Dave	J	94-NC-154		BERMAN
	Schrobljen	Eric	S	94-NE-166	D	WITT
	Mareon	John	R	94-NA-144		TANGNEY
	Hollenbeck	John		94-NA-086		JONES
	Jasuk	Teona		94-NC-110	D	SJOGREN
	Mandrek	V.		94-NC-170		LEE
	Morjan	Roger	J	94-NE-122	A	POMRENKE
	Panday	Ravi	H	94-NA-118		FANT
	Bridges	David	E	94-NA-093		KOZUMBO
Molecular Technologies, Inc	Chambers	Janice	L	94-NC-122		LEE
	Marcum	David	B	94-NC-148		LEE
	Oldham	Philip	M	94-NC-134	D	ERSTFELD
	Chen	Jeng-I	L	94-NE-123		CRAIG
	Monat	Seymour	P	94-NC-092		KOZUMBO
	Cone	Rufus	T	94-NC-083	A	KOZUMBO
	Inskop	William	M	94-NA-156		LUGINBUHL
	Quinn	Mark		94-NC-178	A	BERMAN
	van Kulk	Frederik JGM		94-NA-123	A	MCMICHAEL
	Kidem	Zvi	M	94-NA-134	D	JACOBS
NASA - Ames Research Center	Bauschlicher, Jr.	Charles	E	94-NC-081	A	DICKINSON
	Mansour	Maji		94-NC-064	A	DICKINSON
	Nguyen	Thuy	P	94-NC-075		BERMAN
	Benson	William	J	94-NE-093	D	KELLEY
	Huby	Severly				
	Linn	Anne				
	Casassi	Michael				
	Van arunt	Richard				

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
National Science Foundation	Fein	Jay	S	94-NL-072	A	KROLL	
Naval Research Laboratory	McDonald	Bernie	E	94-NM-152	A	HOLLAND	
New Jersey Institute of Technology	Thompson	Phillip	E	94-NE-188	A	POMRENKE	
North Carolina State University	Goode	Phillip	N	94-NL-163	A	RADOSKI	
	Chokani	N		94-NA-121	A	SAKELL	
	Kasichainula	Jagannadham	I	94-NC-151	A	WARD	
North Dakota State University	McCormick	Rodney	A	94-NE-101	A	SCHLOSSER	
	Atwood	David	E	94-NC-101	A	ERSTFELD	
	Dunn	Douglas	S	94-NE-136	A	WITT	
	Maki	William	E	94-NL-110	A	TANGNEY	
	McCourt	Mark	E	94-NL-097	A	COLLINS	
	Nygard	Kendall	E	94-NM-163	A	GLASSMAN	
	Rodgers	Kenton	R	94-NC-089	A	LEE	
	Tuvarajan	Subbaraya		94-NE-133	A	WITT	
Northwestern University	Chan	Chung		94-NE-189	A	BARKER	
	Jiang	Hua	N	94-NI-008	A	MART	
Northwestern University	Seidman	David		94-NC-171	A	WARD	
	Weitz	Eric	J	94-NC-173	A	BERMAN	
Oklahoma State University	Martin	Joel	K	94-NE-148	A	POMRENKE	
	Ostrander	Gary	P	94-NL-094	A	KOZUMBO	
	Joshi	Ravindra		94-NE-192	D	WITT	
Old Dominion Univ Rsh Foundation Inc.	Li	Wu		94-NM-086	A	SJOGREN	
Optical Concepts, Inc	Peters	Frank	D	94-NE-116	D	SCHLOSSER	
Optical Polymer Research	Schuman	Paul	J	94-NC-147	A	LEE	
Orange County Robotics	Martin	Bryan	E	94-NM-136	D	JACOBS	
Oregon Graduate Institute	Moody	John		94-NM-102	A	WAKSMAN	
Oregon State University	D'Ambrosio	Bruce	T	94-NM-170	A	WAKSMAN	
Purdue State University	Knight	John		94-NL-096	A	KOZUMBO	
PICOPRIX	Williamson	Steve	A	94-NE-101	A	WITT	
Pennsylvania State University	Smith	Gerald		94-NE-092	A	KELLEY	
Phillips Laboratory	Hussey	Thomas	A	94-NM-101	A	JACOBS	
Phillips Lab	Dolson	Clairvce	C	94-NC-072	A	LEE	
Photometrics, Inc.	Garner	Richard		94-NL-071	D	KROLL	
Phoenix Research and Development Inc	Castaneda	Jesse	A	94-NM-174	D	NACHMAN	
Physical Optics Corporation	Spariosu	Kalin	K	94-NE-118	D	SCHLOSSER	
Physical Research Inc	Thom	David		94-NC-137	D	ERSTFELD	
Physical Sciences Inc	Rawlins	W. Terry		94-NL-069	A	KROLL	
Polytechnic University	Arnold	Stephen		94-NE-099	A	CRAIG	
	Famar	F.		94-NE-098	A	SCHLOSSER	
	Tassoulas	Leandros	J	94-NM-111	D	SJOGREN	
Potomac Synergetic Inc. (PSI)	Corcoran	V		94-NE-110	A	SCHLOSSER	
Primal Solutions, Inc.	Savage	Sam	J	94-NM-133	A	GLASSMAN	
Princeton University	Holmes	Philip	M	94-NM-169	A	NACHMAN	
	Rahitz	Herschel		94-NC-083	A	BERMAN	
	Freisem	Anne		94-NL-141	A	TANGNEY	
Purdue University	Fleetser	Sanford	K	94-NA-128	A	TISHKOFF	
Quantum Electronics, Technology, Inc	Lee	Kotik	D	94-NC-135	D	ERSTFELD	
Quantum Magnetics, Inc.	Hicks	Andrea	D	94-NC-084	D	ERSTFELD	

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
U Lee Group Inc	Schaefer	Fred			94-NE-193	A	WEINSTOCK
Radiometrics Corporation	Solheim	Fredrick		C	94-NC-131	D	ERSTFELD
Radson Group	Edelsohn	Charles		R	94-NL-129	D	KROLL
Research Development Corporation	Leddo	John		M	94-NL-130	A	KROLL
Rice University	Symes	William		W	94-NL-147		TANGNEY
Rockwell International, Science Center	Benard	David		J	94-NM-114	A	JACOBS
	Terpowski	Allen		J	94-NC-073		PERRAM
Outgers - The State University	Sontag	Eduardo		D	94-NA-089	A	TISHKOFF
					94-NM-109	A	JACOBS
					94-NM-149		JACOBS
S.D. School Of Mines & Technology	Helldon, Jr.	John		M	94-NL-114		KROLL
EMAS Corporation	Duff	William		G	94-NC-130	D	ERSTFELD
991 International	Saxon	Roberta		P	94-NC-176		BERMAN
SVT Associate Inc	Van Hove	James		M	94-NE-163	D	WITT
Schwartz Electro-Optics Inc	Acharekar	Madhu			94-NE-107	D	SCHLOSSBER
Schwartz Electro-Optics Inc.	Moulton	Peter		F	94-NE-112	D	SCHLOSSBER
Science & Engineering Services	Lee	H. Sang			94-NL-127	A	KROLL
					94-NL-129	D	KROLL
Scientific Research Associates, Inc.	Grubin	Harold			94-NE-106	A	WITT
Sensors Unlimited Inc	Veraak	Jacobus		S	94-NE-102	D	WITT
South Carolina State University	Dharwadkar	Shriram		R	94-NL-006	A	HART
Southern Illinois University	Spector	Scott		J	94-NM-096		NACHMAN
Southern Univ.--Dept. of Mechanical Eng.	Mirshams	Reza		A	94-NC-102		WARD
Southeast Sciences, Inc.	Hovde	Christian			94-NL-067		KROLL
Spectra Diode Laboratories, Inc	Sanders	Steve			94-NE-174	D	SCHLOSSBER
	Warts	Robert			94-NE-173	A	SCHLOSSBER
Spire Corporation	Nasavar	Fareydoon			94-NE-104	D	WITT
St. Louis University	Mitchell	Brian		J	94-NL-077		DICKINSON
Stanford University	Cannon	Robert			94-NM-119	A	JACOBS
	Chu	Steven			94-NE-097		KELLEY
	Harris	S.		E	94-NE-160		SCHLOSSBER
State University of New York	MacCormack	Robert		M	94-NA-126		SAKELL
	Zare	Richard		N	94-NC-082		BERMAN
	Prasad	Paras		N	94-NC-077	A	LEE
Steven, Institute of Technology	Samuel	Arthur		G	94-NL-060		TANGNEY
Teles & Associates, Inc	Calvetti	Daniela		M	94-NM-117		SJOGREN
Synthetic Technical Services Inc	Teti	Nicholas			94-NM-129	D	GLASSMAN
Syracuse Univ - Dept Elec & Computer Eng	Shi	Chi			94-NM-142	D	JACOBS
FLC Precision Waver Technology Inc	Wang	Hong			94-NI-007	A	HART
Texas A and M Research Foundation	Mukherjee	Sayan			94-NE-165	D	WITT
	Chen	Goong			94-NM-093	D	JACOBS
	Hojan	Harry		A	94-NA-083		JONES
	Li	Ta-Hsin			94-NM-118		SJOGREN
The Armed Forces Radiobiology Research	Vance	J.		M	94-NA-097	A	JONES
The Insitu Group	McGeer	Sathasiya		B	94-NL-065		HADDAD
Transitions Research Corp	McGeer	Tad			94-NL-119	A	KROLL
Trillix Software & Controls, Inc	Evans, Jr.	John		M	94-NM-126	D	JACOBS
	Gerstenberger	Michael		D	94-NM-121	D	JACOBS

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Tulane Univ -- School of Medicine	Sernofsky	Carl		94-NL-087		KOZUMBO
Tulane University	Rudrakrishnamurthy	Bhandaru		94-NL-086		KOZUMBO
	Rubinstein	Asher	A	94-NC-097	W	PECHENIK
	Tasker	Jeffrey	C	94-NL-101		MADDAD
	Zimmerman	George	L	94-NL-109		TANGNEY
U.S. Army Topographic Engineering Center	Hansen	John V. E.		94-NL-135	A	KROLL
Uniphase Corporation	Piehler	David		94-NE-167	D	SCHLOSSER
United Engineering Trustees Inc	Friedman	Charles	B	94-NE-180	A	SCHLOSSER
United Technologies Research Center	Colket	Meredith		94-NA-090	A	TISHKOFF
Univ of Alabama	Barr	Thomas	A	94-NC-094		LEE
	Chipean	Russell	A	94-NE-124		CRAIG
	Chung	T J		94-NA-104		SAKELL
	Lammertsoe	Koop		94-NC-124		BERMAN
	Lawson	Chris	M	94-NC-172		BERMAN
Univ of Arizona	Madarasz	Frank	L	94-NC-116		LEE
	Gehrels	Tom		94-NE-147		POMRENKE
				94-NL-062	A	RADOSKI
Univ of Arkansas	Lyon	Melvin		94-NL-142		RADOSKI
	Salao	Grayory	J	94-NL-073		COLLINS
	Xiao	Min		94-NE-149		POMRENKE
Univ of California Berkeley	Gleser	Donald		94-NE-154		SCHLOSSER
Univ of California Davis	Wardner	William	A	94-NM-087		JACOBS
	Luhmann, Jr.	Neville	C	94-NM-176		SJOGREN
	Mukherjee	Asiya		94-NE-191	A	BARKER
	Mackenzie	John	D	94-NC-166		WARD
Univ of California Los Angeles	Sarkar	Sutanu		94-NC-081	A	PECHENIK
Univ of California San Diego	Vecchio	Kenneth	S	94-NA-100		SAKELL
	Jinsson	S	B	94-NC-181		WARD
	Meliv	Maria	I	94-NA-087		JONES
Univ of Central Florida	Stegeman	George		94-NC-144		BERMAN
Univ of Cincinnati	Vasudevan	Vijay	K	94-NE-121		CRAIG
Univ of Colorado	Michl	Josef		94-NC-073		WARD
	Pak	Ronald V S		94-NC-162		BERMAN
	Hecht	Norman		94-NA-080		LEWIS
Univ of Dayton	Angell	Thomas	S	94-EO-001		JANISZEWSKI
Univ of Delaware	Schraeder	James	E	94-NM-107	A	JACOBS
Univ of Denver				94-NM-113		SJOGREN
				94-NM-115		SJOGREN
				94-NM-116		SJOGREN
Univ of Georgia	Scheefar III	Henry	F	94-NC-155		BERMAN
	Strobel	George	L	94-NE-119	D	SCHLOSSER
Univ of Hawaii	Reitblat	Herbert	L	94-NL-134	D	TANGNEY
Univ of Illinois	Hsia	K	J	94-NA-092		JONES
Univ of Illinois - Chicago	Asirache	Farid		94-NL-063	D	COLLINS
Univ of Illinois - Urbana Champaign	Krier	Herman		94-NA-108	A	BIRKAN
Univ of Iowa	Li	Tong		94-NM-093	D	NACHMAN
Univ of Kansas Center for Research	Lan	C.	E	94-NA-115		MCMICHAEL
	Subramaniam	Gala		94-NC-104		ERSTFELD

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Univ of Kentucky Research Foundation	Man	Chai-Sing			94-NM-157	A	NACHMAN
Univ of Leeds	Hainsworth	Roger			94-NL-138	A	COLLINS
Univ of Louisville	Cohn	Robert		W	94-NE-125		CRAIG
Univ of Maryland	Alexander	William		M	94-NC-139		BERMAN
	Destler	William		W	94-NE-190	A	BARKER
	Mathew	Thomas			94-NM-177		SJOGREN
Univ of Maryland, Baltimore County	Krishna	C. Mani			94-NM-150		LUGINBUHL
Univ of Massachusetts	Bernstein	Dennis		S	94-NM-173	A	JACOBS
Univ of Michigan	Uhattacharya	Pallab			94-NE-094		WITT
	Chen	I-Wei			94-NC-183		PECHENIK
	Gombosi	Tamas			94-NM-085	A	JACOBS
	Norris	Theodore		B	94-NE-100		WITT
	Rand	Stephen		C	94-NE-185		SCHLOSSER
Univ of Minnesota	Friedman	Avner			94-NM-100		NACHMAN
					94-NM-143	A	SJOGREN
Univ of Mississippi	Elsherbeni	Alef		Z	94-NE-138		WITT
	Hanson	Donald		F	94-NE-139	D	WITT
	Sinha	Sumon		K	94-NA-117		FANT
	Saith	Charles		E	94-NE-137		WITT
Univ of Mississippi Medical Center	Hume	Arthur		S	94-NL-084		KOZUMBO
	Morcum	Mona		T	94-NL-093		MADDAD
Univ of Missouri	Balakrishnan	S.			94-NM-160		JACOBS
	Basu	Asit		P	94-NM-091	A	SJOGREN
	Blum	Frank		D	94-NC-098		LEE
	Grown	Jason		J	94-NM-084		SJOGREN
	DeFazio	Brian			94-NM-166		NACHMAN
	Handol	Peter			94-NE-183	A	WITT
	Leventis	Nicholas		I	94-NC-111	A	ERSTFELD
	Miese	Jon		M	94-NE-120		CRAIG
	Murphy	Richard		D	94-NE-152		BARKER
	Nasrallah	Maggi		M	94-NC-091		LEE
	Switzer	Jay		A	94-NC-100		PECHENIK
	Welsh	William		J	94-NC-120		LEE
Univ of Nebraska	Ianno	N		J	94-NE-153		BARKER
	Moghann	Mehrdad			94-NC-092		LEE
Univ of Nevada	Woods	Joseph		P	94-NE-129	A	WITT
	Anderson	John		G	94-NL-076		DICKINSON
	Thompson	Jeffrey		S	94-NE-157		KELLEY
	Vankatsubramanian	R			94-NE-144		POMREKE
	Ortiz	J.		V	94-NC-165	D	BERMAN
Univ of New Mexico	Alexander	Gerianne		M	94-NL-080		COLLINS
Univ of New Orleans	Azzam	Rasheed		M	94-NE-126		CRAIG
	Chen	Ming-Cheng			94-NE-135		WITT
	Hegseth	John		J	94-NA-114		MCMICHAEL
	Hui	David			94-NM-094	A	NACHMAN
	Lee	Shing		M	94-NE-155		SCHLOSSER
	May	James		G	94-NL-111		TANGNEY
	Wiley	John		B	94-NC-115		ERSTFELD

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Univ of Notre Dame	Gernstein		Gary	H	94-NE-179	A	POHRENKE
	Jacobs		Dennis	C	94-NC-080		BERMAN
Univ of Oklahoma	Lent		Craig	S	94-NE-095		POHRENKE
	Glatzhofer		Daniel	T	94-NC-099		BERMAN
	McCann		Patrick	J	94-NE-155		SCHLOSSBER
	Xu		Qin		94-NL-107		KROLL
Univ of Oklahoma, College of Medicine	Dorner		Kenneth	J	94-NL-113		TANGNEY
	Espinoza-Varas		Blas		94-NL-112		TANGNEY
Univ of Oregon	Kellman		Michael	E	94-NC-087		BERMAN
Univ of Pennsylvania	Bonnell		Dawn	A	94-NC-126		PECHENIK
	Buchsbaum		Gershon	P	94-NL-140		TANGNEY
	Pope		David		94-NC-182		WARD
Univ of Rochester	Eberly		E	H	94-NE-184		SCHLOSSBER
Univ of South Carolina	Randall		George	E	94-NL-074		DICKINSON
	Sutton		Michael	A	94-NC-107	W	WARD
Univ of Southern California	Redekopp		Larry	G	94-NA-123		MCMTCHAE
	Weber		William	P	94-NC-152	D	LEE
					94-NC-153	D	LEE
Univ of Southern Mississippi	Griffin		Anselm	C	94-NC-108		LEE
	Poljan		John	A	94-NC-106	A	LEE
					94-NC-163		LEE
Univ of Southwestern Louisiana	Bayoumi		Magdy	A	94-NE-130		WITT
					94-NE-131		WITT
Univ of Tennessee	Glass, Sr		Gary	A	94-NE-132		WITT
	Laroussi		Mounir		94-NE-187		BARKER
	Roth		J. Reese		94-NE-096	A	BARKER
	Weltsman		Y	J	94-NA-098	A	JONES
Univ of Texas	Lagom		Richard	J	94-NC-129	D	ERSTFELD
	Lu		Frank	K	94-NA-094		SAKELL
	Mofford		Jerry	C	94-NL-148	D	TANGNEY
	Zhang		Xiaodong		94-NM-151		GLASSMAN
Univ of Texas at Austin	Frohlich		Cliff		94-NL-115	A	DICKINSON
Univ of Utah	Hoepfner		David	W	94-NA-096		JONES
Univ of Virginia	Huston		Dryver	R	94-NE-127		CRAIG
	Kapp		Bruce	S	94-NL-100		MADDAD
	Oughstun		Kurt	E	94-NM-164	A	NACHMAN
	Squires		Kyle	D	94-NA-113		MCMTCHAE
Univ of Virginia	Varhue		Walter	J	94-NE-145	A	POHRENKE
	Monaker		Michael		94-NL-066	A	MADDAD
	Wert		John	A	94-NC-177		WARD
Univ of Washington	berhardt		D Scott		94-NA-105	A	SAKELL
	Hanka		Steven		94-NM-153	A	WAKSMAN
Univ of Waterloo	Bernath		Peter	F	94-NC-150		BERMAN
Univ of Wisconsin	Chan		Y. Austin		94-NC-180		WARD
	Grim		F. Fleming	M	94-NC-142		BERMAN
	Glenberg		Arthur		94-NL-136		TANGNEY
	Jenison		Rick		94-NL-133		TANGNEY
	Siegel		Frank	L	94-NL-143	A	2312/AS

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Univ of Wyoming	Bohle	David	Scott	B	94-NL-093		KOZUMBO
	Smithson	Scott			94-NL-078		DICKINSON
	Haske	Timothy	A		94-NA-116		MCMICHAEL
University of Alabama	Kim	Yoon-Tak			94-NC-095		LEE
	Nikles	David	E		94-NC-093		LEE
University of Idaho	Fletcher	T. Rick			94-NC-119		BERMAN
	Kearney	Robert	J		94-NC-112		PECHENIK
	Kellogg	Scott	T		94-NC-095		KOZUMBO
	Morra	Matthew	J		94-NC-143		HEDBERG
	Pesic	Batrick			94-NC-140		HEDBERG
	Taylor	Patrick	R		94-NC-109		PECHENIK
	Veh	Wei Jiang			94-NE-140		WEINSTOCK
	von Wandruszka	Ray			94-NC-113		HEDBERG
	Mayer	Jonathan	M		94-NA-111	A	MCMICHAEL
	Partanen	Jouni			94-NE-168	D	SCHLOSSBER
Virginia Polytechnic Inst & State Univ	Curtin	W	A		94-NA-084		JONES
	Hafka	Raphael	T		94-NM-155		GLASSMAN
Visual Computing Systems Corporation	Simpson	Roger	L		94-NA-122		FANT
	Stahura	Paul			94-NM-140	D	JACOBS
	Saberi	Ali			94-NM-168		JACOBS
	Byrnes	C.	I		94-NM-161	A	JACOBS
Washington State University	Rodin	Ervin	V		94-NM-159		GLASSMAN
	Fan	Y	X		94-NE-172	D	SCHLOSSBER
West Stom Co	Kuhlean	John	M		94-NA-112	A	MCMICHAEL
	Giles	Nancy	C		94-NE-146		POMRENKE
West Virginia University	Ravigururajan	T	S		94-NA-119		FANT
	McLarty	Douglas			94-XP-002	A	YORK
Xinotech Research INC	Schuermeier	Fritz	L		94-NI-013	A	ZARBO
	Rivera	Romel			94-NM-139	D	GLASSMAN
Vale University	Iarr	Michael	J		94-NL-116		TANGNEY
Max Millimeter Wave Corporation	Zacharias	David	S		94-NL-123	D	KROLL

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DYNAMIC SIMULATION OF PILES UNDER GROUND SHOCK LOADING Univ of Colorado	Pak Ronald Y S	N 36 03/01/94 \$269,458	LEWIS 94-NA-080	\$139,945
WHOLE-FIELD MEASUREMENTS IN GAS-PHASE TURBULENT FLOWS California Institute of Technology	Dimitrakis Paul	N 09 06/01/94 \$139,945	A MCMICHAEL 94-NA-081	\$139,945
INTERPLANAR DAMAGE & FRACTURE IN CERAMICS & SUPERALLOYS AT ELEVATED TEMPERATURES UNDER MULTIAXIAL STRESSES Univ of Illinois	Hsieh K	N 36 07/01/94 \$353,449	JONES 94-NA-082	\$139,945
CEMENT LINE INTERPHASE EFFECTS ON THE DYNAMIC MECHANICAL BEHAVIOR OF HAVERIAN COMPACT BONE TISSUE Texas A and M Research Foundation	Moghan Harry	R 12 07/01/94 \$82,184	JONES 94-NA-083	\$139,945
TOUGHENING OF HETEROGENEOUS CERAMICS Virginia Polytechnic Inst & State Univ	Curtin M	N 24 07/01/94 \$207,466	JONES 94-NA-084	\$139,945
FAILURE LAWS AND MICROMECHANISMS OF DEFORMATION FOR LAMINATED CARBON-CARBON COMPOSITES UNDER BI-AXIAL LOADING Dartmouth College	Gupta Vujay	N 36 07/01/94 \$330,011	JONES 94-NA-085	\$139,945
CHARACTERIZATION OF INTERFACES IN METAL-MATRIX COMPOSITES Michigan State University	Jaswik Irena	N 36 07/01/94 \$156,165	JONES 94-NA-086	\$139,945
THERMAL AND OFF-AXIS BEHAVIOR OF METAL MATRIX COMPOSITES Univ of California, Santa Barbara	Jansson S	N 36 07/01/94 \$399,069	JONES 94-NA-087	\$139,945
MECHANICS OF MATERIALS AND INTERFACES IN MICROELECTRONIC DEVICES Florida Institute of Technology	Liu Sheng	N 36 07/01/94 \$255,333	JONES 94-NA-088	\$139,945

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REACTION KINETICS OF PHOSPHINE-SEED FLAMES				
Rockwell International, Science Center	Twarowski	N 36 10/01/94 \$499,458	TISHKOFF 94-NA-089	
MECHANISMS CONTROLLING SOOT FORMATION IN DIFFUSION FLAMES				
United Technologies Research Center	Colket	N 36 11/01/94 \$421,942	A TISHKOFF 94-NA-090	\$30,000 01/08/94 \$405,904
SOURCES OF TOUGHNESS IN REACTION BONDED POROUS SILICON NITRIDE				
Massachusetts Institute of Technology	Argon	R 04 27/01/94 \$45,160	JONES 94-NA-091	
SOURCES OF TOUGHNESS IN REACTION BONDED POROUS SILICON NITRIDE				
Massachusetts Institute of Technology	Argon	R 04 01/02/94 \$45,160	A JONES 94-NA-092	\$39,928 01/05/94 \$39,928
COMPUTATIONAL SIMULATION OF UNSTEADY, VISCOUS, HYPERSONIC FLOW ABOUT FLIGHT VEHICLES WITH STORE SEPARATION				
Mississippi State University	Marcum	N 36 07/02/94 \$436,046	SAKELL 94-NA-093	
HYPERSONIC TURBULENT BOUNDARY LAYER SUBJECTED TO STRONG COMPRESSION-EXPANSION DISTURBANCES				
Univ of Texas	Lu	N 36 07/02/94 \$333,016	SAKELL 94-NA-094	
FUNDAMENTAL ISSUES IN THE COALESCENCE-BASED PROCESSING OF POLYMER POWDERS AND COLLOIDS				
Dupont Central Research Development	Jagota	N 24 07/02/94 \$125,600	LEWIS 94-NA-095	
INVESTIGATION OF MODELING THE FRETTING AND PITTING CORROSION FATIGUE PROCESSES IN STRUCTURAL ALUMINUM ALLOYS				
Univ of Utah	Moepner	N 37 07/02/94 \$454,400	JONES 94-NA-096	
RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS A&M UNIVERSITY, 1994-95				
Texas A and M Research Foundation	Vance	R 12 08/02/94 \$42,962	A JONES 94-NA-097	\$42,962 15/08/94 \$42,962

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THE MECHANICAL RESPONSE OF CROSS-PLY AND ANGLE-PLY CERAMIC COMPOSITES Univ of Tennessee	Weisman	N 36 08/02/94 \$109,735	A JONES 94-NA-098	\$34,798 01/07/94 \$109,735
WORKSHOP ON HIGH-PERFORMANCE GEOMEDIA MATERIALS AND SYSTEMS Civil Engineering Research Foundation	Magnell	N 12 08/02/94 \$5,000	A LEWIS 94-NA-099	\$5,000 15/11/93 \$5,000
DIRECT NUMERICAL SIMULATION OF COMPRESSIBILITY EFFECTS IN THE HIGH-SPEED, TURBULENT BOUNDARY LAYER Univ of California San Diego	Sarker	N 36 14/02/94 \$179,920	SAKELL 94-NA-100	
(AFRAPT) MASSACHUSETTS INSTITUTE OF TECHNOLOGY Massachusetts Institute of Technology	Greitzer	R 12 17/02/94 \$51,395	A FANT 94-NA-101	\$51,395 01/09/94 \$51,395
DUAL ANAL OF THE DYNAMICAL BEHAVIOR OF MANEUVERING AIRCRAFT INCLUDING THE GEOMETRIC DYNAMIC AND AERODYNAMIC NONLINEARITIES Boston University	Siodic	N 36 22/02/94 \$303,798	WU 94-NA-102	
HYPERSONIC T & E WORKSHOP Arnold Engineering Development Center	Briski	N 09 23/02/94 \$19,779	A SAKELL 94-NA-103	\$19,779 23/02/94 \$19,779
DIRECT NUMERICAL SIMULATION OF TURBULENCE Univ of Alabama	Chung	R 36 23/02/94 \$358,941	SAKELL 94-NA-104	
AN UNSTRUCTURED, CONJUGATE GRADIENT METHOD APPLIED TO UNSTEADY, HYPERSONIC, REACTING FLOW PROBLEMS Univ of Washington	Eberhardt	N 35 24/02/94 \$222,463	A SAKELL 94-NA-105	\$100,000 15/09/94 \$300,000
UNSTRUCTURED GRID TECHNIQUES IN COMPRESSIBLE VISCOUS FLOWS McDonnell Douglas Aerospace	Holt	N 24 25/02/94 \$120,000	D SAKELL 94-NA-106	

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ION-EQUILIBRIUM PROCESSES IN ARCJET PLASMAS Univ of Illinois - Urbana Champaign	Krier	R 11 04/03/94 \$50,000	A BIRKAN 94-NA-109	\$50,000 01/08/94 \$50,000
(SBI) HIGH FREQUENCY RESPONSE MEA FLUX SENSOR FOR TURBOMACHINERY Creare Inc. Research & Development Inc	Maggi	N 06 07/03/94 \$59,745	MCMICHAEL 94-NA-109	
(SPIR) EMBEDDED FAST RESPONSE HEAT TRANSFER SENSORS Astronautics	G	N 06 07/03/94 \$59,994	MCMICHAEL 94-NA-110	
(SNIP94) HIGH TEMPERATURE SENSORS AND ARRAYS FOR TURBOMACHINES Visteal Corporation	Mager	N 06 07/03/94 \$99,065	A MCMICHAEL 94-NA-111	\$99,066 14/07/94 \$99,066
(DEPSCOR93) DEVELOPMENT OF DOPPLER GLOBAL VELOCIMETER (DVG) FOR AERONAUTICS AND COMBUSTION STUDIES West Virginia Univ. Research Corporation	Kuhlman	N 36 09/03/94 \$406,438	A MCMICHAEL 94-NA-112	\$406,438 15/08/94 \$406,438
(DEPSCOR 93) LARGE-EDDY SIMULATION OF ROTATING, THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS Univ of Vermont	Stuires	N 36 09/03/94 \$189,673	MCMICHAEL 94-NA-113	
(DEPSCOR93) HOLOGRAPHIC 3-D VELOCITY FIELD MEASUREMENTS IN TURBULENT FLOWS Univ of New Orleans	Heyseith	N 36 09/03/94 \$329,931	MCMICHAEL 94-NA-114	
(DEPSCOR93) NONLINEAR FLUID STABILITY ANALYSIS Univ of Kansas Center for Research	Lin	N 36 07/03/94 \$382,356	MCMICHAEL 94-NA-115	
(DEPSCOR93) ELECTRIC ACTUATOR COMPONENT SELECTION AND PERFORMANCE IN HARSH ENVIRONMENTS University of Alabama	Muske	N 36 09/03/94 \$395,208	MCMICHAEL 94-NA-116	

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(OEPSCOR33) INVESTIGATING THE PERFORMANCE OF MICRO-ACOUSTICAL TRANSDUCERS FOR CONTROL OF INTERNAL UNSTEADY SEPARATING FLOWS Univ of Mississippi	Sinha	N 36 16/03/94 \$210,379	FANT 94-NA-117	
(OEPSCOR33) CONTROL OF DYNAMIC STALL USING DISTRIBUTED SUCTION Mississippi State University	Bridges	N 36 16/03/94 \$308,053	FANT 94-NA-118	
(OEPSCOR33) ROCKET-CONAUSTOR LIFE AND PERFORMANCE IMPROVEMENT: COOLANT-CHANNEL HEAT TRANSFER ENHANCEMENT Richita State University	Raviururajan	N 24 16/03/94 \$68,352	FANT 94-NA-119	
(OEPSCOR33) LOCAL MEASUREMENTS & DIRECT NUMERICAL SIMULATION OF TURBULENT FLOW IN ROTATING DUCTS Louisiana State University	Nikitopoulos	N 36 16/03/94 \$336,160	FANT 94-NA-120	
INTERNAL STORL CARRIAGE AND SEPARATION AT HYPERSONIC SPEEDS North Carolina State University	Chokani	N 36 16/03/94 \$156,024	SARELL 94-NA-121	
FUNDAMENTAL STRUCTURE OF TURBULENT CONVECTIVE HEAT TRANSFER IN 3-D TURBULENT BOUNDARY LAYERS, INCLUDING FREESTREAM TURBULENCE EFFECTS Virginia Polytechnic Inst & State Univ	Simpson	N 36 16/03/94 \$255,000	FANT 94-NA-122	
FLOW-VECTURING CONTROL OF JETS Univ of Southern California	Radekopp	R 36 17/03/94 \$147,075	MCMICHAEL 94-NA-123	
FLOW AND DISPERSION IN DEFORMABLE POROUS MEDIA Massachusetts Institute of Technology	Mel	N 36 17/03/94 \$218,888	LEWIS 94-NA-124	
DYNAMIC INSTABILITIES IN FLOW-STRUCTURE INTERACTIONS, FLUTTER AND SURFING Computational Mechanics Company Inc	Oden	N 36 17/03/94 \$397,518	A JONES 94-NA-125	\$160,338 15/07/94 \$80,275

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DIJECT NUMERICAL SIMULATION OF COMPRESSIBLE TURBULENT BOUNDARY LAYERS Stanford University	MacCormack	N 12 17/03/94 \$86,798	SAKELL 94-NA-126	
LIMIT CYCLE OSCILLATION/TRANSONIC HIGH ALPHA FLOW VISUALIZATION Lockheed	Cunningham	N 36 18/03/94 \$528,474	A FANT 94-NA-127	\$50,000 01/07/94 \$317,912
PROPOSED CONTINUATION FOR AIR FORCE RESEARCH ON AEROPROPULSION TECHNOLOGY (AERAPT) Purdue University	Fleeter	R 12 21/03/94 \$83,744	A TISHKOFF 94-NA-128	\$83,744 15/08/94 \$83,744
NASA AMP'S COMPUTER GRAPHICS SUPPORT FOR PAPVIZ MOIN 4824 - Ames Research Center	Mansour	N 06 22/03/94 \$18,494	A MCMICHAEL 94-NA-129	\$17,494 01/04/94 \$17,494
RESIDUAL AND THERMAL STRESSES IN THIN FILMS AND INTERCONNECTS Florida International University	Cherepanov	N 12 24/03/94 \$43,973	A WU 94-NA-130	\$43,973 01/08/94 \$43,973

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PHOTOPHYSICS OF HIGH ENERGY DENSITY MATERIALS National Inst. of Standards & Technology	Casassa Michael	N 12 05/01/94 \$50,000	A BERMAN 94-MC-071	\$50,000 01/10/93 \$50,000
A CYLINDER (CONTAINER TO BE PROVIDED BY PL/SEM) OF PENTABORANE (-250ML) Phillips Labs	Dolson Clairyce	N 12 05/01/94 \$850	A LEE 94-MC-072	\$850 01/01/94 \$850
MALDI-TOF MASS SPECTROMETER Rockwell International Science Center	Denard David	R 12 06/01/94 \$250,000	A PERRAN 94-MC-073	\$248,432 15/04/94 \$250,000
NEAR THRESHOLD REACTION OF OC3P WITH H2, H2O AND HCN: VELOCITY- SELECTED, LASER-ALIGNMENT STATE-TO-STATE STUDIES IN CROSSED MOL. BEA National Inst. of Standards & Technology	Casassa Michael	N 36 11/01/94 \$390,000	GERMAN 94-MC-075	
QUANTUM DYNAMICAL STUDIES OF ENERGETIC SOLID DECOMPOSITION Aerodyne Research Inc	Brown Robert	N 36 11/01/94 \$403,591	BERMAN 94-MC-076	\$80,000 01/06/94 \$80,000
PROCESSING OF NOVEL CHROMOPHORES FOR ELECTRO-OPTIC APPLICATIONS State University of New York	Prasad Paras	N 36 13/01/94 \$524,998	A LEE 94-MC-077	
A STUDY OF PHASE EQUILIBRIA AND TRANSFORMATIONS IN THE MB-II-AL SYSTEM Univ of Cincinnati	Vasudevan Vijay	N 36 13/01/94 \$422,029	WARD 94-MC-079	
ENERGETIC AND STERIC EFFECTS IN ION/SURFACE REACTIVE SCATTERING Univ of Notre Dame	Jacobs Dennis	N 36 19/01/94 \$372,533	BERMAN 94-MC-080	
IONIC CONDUCTING POLYMER FILMS Univ of California, Los Angeles	Mackenzie John	N 12 25/01/94 \$49,500	A PECHENIK 94-MC-081	\$49,500 15/04/94 \$49,500

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STATE-RESOLVED REACTION DYNAMICS Stanford University	Zare	N 36 27/01/94 \$804,926	BERMAN 94-NC-082	
DESIGN CONCEPTS FOR CONTROLLING MOLECULAR MOTION Princeton University	Rabitz	N 36 01/02/94 \$411,374	BERMAN 94-NC-083	
A NEW INSTRUMENT FOR DETECTING HIDDEN CORROSION AND THE ONSET OF CORROSION DAMAGE IN AIRCRAFT Quantum Magnetics, Inc.	Hibbs	N 06 01/02/94 \$59,954	D ERSTFELD 94-NC-084	
CORROSION MECHANISMS IN HIGH STRENGTH AL AIRFRAME ALLOYS ASAC Inc.	Reynolds	N 06 01/02/94 \$59,900	D ERSTFELD 94-NC-085	
TERMINAL DETECTION OF ATMOSPHERIC CORROSION ON METALLIC SURFACES Aerodyne Research Inc	Freeman	N 06 01/02/94 \$59,990	A ERSTFELD 94-NC-086	\$59,990 15/06/94 \$79,957
DYNAMICS AND SPECTRA OF HIGHLY FACILITATED MOLECULES Univ of Oregon	Kellman	N 36 03/02/94 \$320,070	BERMAN 94-NC-087	
CORROSION OF AIRCRAFT MATERIALS: CORRELATION BETWEEN NANOMETER SCALE AND MACROSCOPIC STRUCTURAL DAMAGE PARAMETERS LYNTECH, Inc.	Gonzalez-Martin	N 06 04/02/94 \$60,000	A ERSTFELD 94-NC-088	\$60,000 15/06/94 \$60,000
PERSCOPED MODELS OF THE BACTERIAL PHOTOFACIATION CENTER SPECIAL PAIR AS NONLINEAR OPTICAL MATERIALS North Dakota State University	Rodgers	N 36 04/02/94 \$308,671	LEE 94-NC-089	
PERSCOPED CYCLODEXTRIN CHEMISTRY FOR POLYMER PRODUCTION Louisiana State University	Warner	N 36 04/02/94 \$426,448	LEE 94-NC-090	

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DEPSCOR93 IMPROVED RELIABILITY OF FERROELECTRIC AND OXIDE CONDUCTING THIN FILMS FROM POLYMERIC PRECURSORS Univ of Missouri	Nazarellah Magdi	N 36 04/02/94 \$405,623	LEE 94-MC-091	
DEPSCOR93 THERMO-MECHANICAL EFFECT OF CRYSTALLIZATION IN SOLID POLYMER COMPOSITES Univ of Nebraska	Megahban Mehrdad	N 36 04/02/94 \$220,559	LEE 94-MC-092	
DEPSCOR93 NEAR INFRARED CHROMOPHORES FOR SMART APPLICATIONS: NAPHTHALOCYANINE METAL COMPOUNDS University of Alabama	Nikles David	N 36 04/02/94 \$569,095	LEE 94-MC-093	
DEPSCOR93 SUSCEPTIBILITY MEASUREMENT INSTRUMENTATION FOR ORGANIC MATERIALS Univ of Alabama	Barr Thomas	N 24 04/02/94 \$294,595	LEE 94-MC-094	
DEPSCOR93 TAILORING OPTICAL PROPERTIES OF THIN FILMS BY CONTROLLED NUCLEATION AND GROWTH University of Alabama	Kim Yoon-Taik	N 36 04/02/94 \$323,591	LEE 94-MC-095	
DEPSCOR93 LOW TEMPERATURE CHEMICAL VAPOR DEPOSITION OF DIELECTRIC AND FERROELECTRIC THIN FILMS Louisiana State University	Griffin Gregory	N 36 04/02/94 \$294,410	ERSTFELD 94-MC-096	
DEPSCOR93 MODELING OF FRACTURE PROCESS IN FIBER REINFORCED CERAMICS Tulane University	Rubinstein Asher	N 36 04/02/94 \$266,002	W PECHENIK 94-MC-097	
DEPSCOR93 DYNAMICS OF SURFACE-BOUND POLYMERS Univ of Missouri	Blum Frank	N 36 04/02/94 \$316,533	LEE 94-MC-098	
DEPSCOR93 POLYMER/CYCLOPHANES: A NEW CLASS OF INSENSITIVE, HIGH ENERGY DENSITY MATERIALS Univ of Oklahoma	Glatzhofer Daniel	N 36 04/02/94 \$366,631	BERMAN 94-MC-099	

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DEPSCOR93 ELECTRODEPOSITED DEFECT-CHEMISTRY SUPERLATTICES Univ of Missouri	Switzer Jay	N 36 04/02/94 \$474,739	PECHENIK 94-MC-100	
DEPSCOR93 SOLID-STATE SYNTHESIS OF 14/16 (IV-VI) ELECTRONIC MATERIALS North Dakota State University	Atwood David	N 36 04/02/94 \$326,301	ERSTFELD 94-MC-101	
DEPSCOR93 PLASTIC ANISOTROPY, AND AGING PROCESS EFFECTS ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF AL-LI ALLOY SHEETS Southern Univ.--Dept. of Mechanical Eng.	Mirshams Reza	N 36 04/02/94 \$309,177	WARD 94-MC-102	
DEPSCOR93 FUNDAMENTAL BATTERY STUDIES FOR ELECTRIC VEHICLES Louisiana State University	Gale Robert	N 36 04/02/94 \$109,558	ERSTFELD 94-MC-103	
DEPSCOR93 CATALYTIC DEMYCOGENATION OF ENDOOTHERMIC FUELS IN A MEMBRANE REACTOR AT SUPERCRITICAL CONDITIONS Univ of Kansas, Center for Research	Subramaniam Gala	N 36 04/02/94 \$296,002	ERSTFELD 94-MC-104	
DEPSCOR93 MULTIPHASE NICKEL ALUMINIDES WITH A B2 MATRIX Auburn University	Gale William	N 36 04/02/94 \$320,074	WARD 94-MC-105	
DEPSCOR93 PROPAGATING POLYMERIZATION FRONTS Univ of Southern Mississippi	Pojman John	N 36 04/02/94 \$260,275	A LEE 94-MC-106	\$260,275 01/09/94 \$260,275
DEPSCOR93 CREEP DAMAGE AND LIFE PREDICTION FOR HIGH TEMPERATURE MATERIALS Univ of South Carolina	Sutton Michael	N 36 04/02/94 \$375,000	WARD 94-MC-107	
DEPSCOR93 MOLECULARLY DESIGNED AUXETIC POLYMERS: A REMARKABLE NEW CLASS OF MATERIALS Univ of Southern Mississippi	Griffin Anselm	N 36 04/02/94 \$371,115	LEE 94-MC-108	

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DEPSCOR93 INDUCTIVELY COUPLED PLASMA SYNTHESIS OF CARBON NITRIDE University of Idaho	Taylor Patrick	N 36 04/02/94 \$305,449	PECHENIK 94-NC-109	
DEPSCOR93 JOINING AND STABILITY OF REFRACTORY ALLOY SINGLE CRYSTALS FOR HIGH TEMPERATURE STRUCTURES Auburn University	Zee Ralph	N 36 04/02/94 \$206,702	WARD 94-NC-110	
DEPSCOR93 MATRIX ADDRESSABLE ARRAYS OF MICROELECTROCHEMICAL DEVICES Univ of Missouri	Leventis Nicholas	N 36 04/02/94 \$341,519	A ERSTFELD 94-NC-111	\$341,519 01/08/94 \$341,519
DEPSCOR93 PLASMA SYNTHESIS OF NANOSIZED METAL, METAL OXIDE AND METAL NITRIDE POWDERS University of Idaho	Kearney Robert	N 36 04/02/94 \$306,479	PECHENIK 94-NC-112	
DEPSCOR93 DECONTAMINATION OF SOIL BY CLOUD POINT EXTRACTION OF POLLUTANTS University of Idaho	von Wandruszka Ray	N 36 04/02/94 \$195,326	HEDBERG 94-NC-113	
DEPSCOR93 DISPERSION-PHASE TRANSFORMATION TOUGHENING OF GAMMA TIAL Clemson University	Grujic Mica	N 36 04/02/94 \$264,283	WARD 94-NC-114	
DEPSCOR93 LOW TEMPERATURE ROUTES TO NEW MATERIALS FOR MAGNETIC DATA STORAGE Univ of New Orleans	Wiley John	N 36 04/02/94 \$337,220	ERSTFELD 94-NC-115	
DEPSCOR93 HYBRID NiO DIFFUSER/DEFUCUSER FOR POWER LIMITING Univ of Alabama	Lawson Chris	N 36 04/02/94 \$299,404	LEE 94-NC-116	
DEPSCOR93 COMBINED MATERIALS MODELING AND CONTROL METH. FOR FAB. OF ADVANCED METALLICS AND INTERMETALLICS Clemson University	Rack Henry	N 36 04/02/94 \$373,579	WARD 94-NC-117	

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DEPSCOR93 NONLINEAR OPTICS IN ORGANIC SINGLE CRYSTAL FILMS Auburn University	Thakur Mrinal	N 36 08/02/94 \$321,081	LEE 94-MC-118	
DEPSCOR93 A NOVEL MATRIX ISOLATION/LASER ABLATION PULSED SOURCE OF HIGH ENERGY INTERMEDIATES FOR STATE-TO-STATE STUDIES IN MOL. DYN. University of Idaho	Fletcher T. Rick	N 36 08/02/94 \$362,541	BERMAN 94-MC-119	
DEPSCOR93 RATIONAL DESIGN OF NOVEL POLYMERS POSSESSING SUPERIOR IMPACT STRENGTH AND AGILE-LASER PROTECTION Univ of Missouri	Welsh William	N 36 08/02/94 \$539,963	LEE 94-MC-120	
DEPSCOR93 THERMOCHEMICAL AND KINETIC MEASUREMENTS RELATED TO COMBUSTION OF ORGANOPHOSPHOROUS COMPOUNDS Kansas State University	Setser Don	N 36 08/02/94 \$414,202	BERMAN 94-MC-121	
DEPSCOR93 INVESTIGATION OF MOLECULAR ORIENTATIONS OF LIQUID CRYSTALLINE POLYESTERS Mississippi State University	Oldham Philip	N 36 08/02/94 \$396,602	LEE 94-MC-122	
DEPSCOR93 STRUCTURE & INTERFACE PROPERTIES OF NANOPHASE CERAMICS: MULTIMILLION PARTICLE MOLECULAR-DYNAMICS SIMULATIONS ON PARALLEL C Louisiana State University	Kalia Rajiv	N 36 08/02/94 \$393,770	A BERMAN 94-MC-123	\$393,770 01/09/94 \$393,770
DEPSCOR93 INSENSITIVE HIGH EXPLOSIVES - A COMPUTATIONAL STUDY Univ of Alabama	Limaertsema Koop	N 36 08/02/94 \$349,681	BERMAN 94-MC-124	
A SUPRAMOLECULAR APPROACH TO THE MECHANISMS OF PHOTOMINERALIZATION OF HAZARDOUS MATERIALS Columbia University	Turro Nicholas	N 36 08/02/94 \$461,155	HEOBERG 94-MC-125	
CONTROLLED SEPARATION FOR INTERFACE MODIFICATION IN VAC/ALUMINA COMPOSITES Univ of Pennsylvania	Bonnell Dawn	N 36 08/02/94 \$447,845	PECHENIK 94-MC-126	

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SYMPOSIUM ON POLYMERIC THIN FILMS FOR PHOTONIC APPLICATIONS American Chemical Society	Lindsay Geoffrey	N 12 08/02/94 \$4,000	D LEE 94-NC-127	
WEAK INTERACTIONS OF BORON, ALUMINUM, AND CARBON ATOMS Johns Hopkins University	Daddigian Paul	N 36 15/02/94 \$250,160	PERMAN 94-NC-128	
NEW DEVELOPMENTS IN THE CHEMISTRY OF ACETYLENIC CARBON MODEL COMPOUNDS: ON THE ROAD TO THE SYNTHESIS OF LINEAR "SP" CARBON Univ of Texas	Ligon Richard	N 36 15/02/94 \$375,000	D ERSTFELD 94-NC-129	
DETECTORS FOR HIDDEN CHEMICAL CORROSION SEMIA Corporation	Duff William	N 06 15/02/94 \$60,000	D ERSTFELD 94-NC-130	
DETECTORS FOR HIDDEN CHEMICAL CORROSION RJ Lee Group Inc	Schweerer Fred	N 06 15/02/94 \$58,471	D ERSTFELD 94-NC-131	
ELECTROCHEMICAL IMPEDANCE PATTERN RECOGNITION FOR DETECTION OF HIDDEN CHEMICAL CORROSION ON AIRCRAFT COMPONENTS Eltron Research Inc	Sammells Anthony	N 06 15/02/94 \$59,996	A ERSTFELD 94-NC-132	\$58,239 15/06/94 \$59,996
THE USE OF ELECTROCHEMISTRY AND ELLIPSOmetry FOR IDENTIFYING AND EVALUATING CORROSION ON AIRCRAFT Jacco SCI Inc	Dacres Chester	N 06 15/02/94 \$59,067	A ERSTFELD 94-NC-133	\$59,067 15/06/94 \$59,067
NON-INVASIVE AND NON-DESTRUCTIVE DETECTION Monst Research	Monat Seymour	N 06 15/02/94 \$59,288	D ERSTFELD 94-NC-134	
DETECTORS FOR HIDDEN OR MINUTE CHEMICAL CORROSION ON AIRFRAMES Quantum Electronics Technology, Inc	Lee Kotik	N 06 15/02/94 \$59,979	D ERSTFELD 94-NC-135	

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APPLICATION OF THERMAL WAVE TECHNIQUE FOR SURFACE AND INTERFACE ROUGHNESS EVALUATION Fishman Consulting	Fishman Ilya	N 06 15/02/94 \$98,750	D ERSTFELD 94-NC-136	
EARLY DETECTION AND MITIGATION OF AIRCRAFT CORROSION Physical Research Inc	Thome David	N 06 15/02/94 \$59,943	D ERSTFELD 94-NC-137	
IM-WAVE RESONANT METHODS FOR THE DETECTION OF CORROSION Conductus, Inc.	Martens Jon	N 06 15/02/94 \$59,991	A ERSTFELD 94-NC-138	\$58,699 15/06/94 \$59,991
LEAK INTERACTIONS OF BORON, ALUMINUM, AND CARBON ATOMS Univ of Maryland	Alexander Millard	N 36 15/02/94 \$222,370	BERMAN 94-NC-139	
DEVELOPING NOVEL METAL SOLVENTS FOR THE DEFENSE INDUSTRY CHITOSANS FOR REMEDIAL/RECOVERY OF HAZARDOUS METALS University of Idaho	Pesic Betric	N 36 17/02/94 \$303,944	HEDBERG 94-NC-140	
DEVELOPMENT OF FIELDABLE ANALYTICAL INSTRUMENTATION FOR COMPOUND SPECIFIC DETECTION OF VOLATILE & SEMIVOLATILE ORGANIC ... Louisiana State University	Overton Edward	N 36 17/02/94 \$374,164	ERSTFELD 94-NC-141	
INTRAMOLECULAR AND INTERMOLECULAR ENERGY TRANSFER IN HIGHLY VIBRATIONALLY EXCITED MOLECULES Univ of Wisconsin	Crim F. Fleming	N 36 17/02/94 \$610,575	BERMAN 94-NC-142	
DEVELOPMENT CATALYSIS OF REDUCTIVE DEMHALOGENATION IN SOILS AND SEDIMENTS BY EXTRACELLULAR TETRAPYRROLES University of Idaho	Morris Matthew	N 36 22/02/94 \$264,338	HEDBERG 94-NC-143	
COMPUTER SIMULATIONS OF GROWTH PHENOMENA ON SOLID SURFACES Univ of California, Santa Barbara	Mettu Morio	N 36 01/03/94 \$378,976	BERMAN 94-NC-144	

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INVESTIGATOR

ANALYTICAL METHODS USING SLATER-TYPE ORBITALS IN QUANTUM CHEMISTRY

Florida A&M University

Jones

Herbert

N 36
03/03/94
\$300,000BERMAN
94-MC-145

NOVEL SOL-GEL DEPOSITION PROCESS FOR REPAIR OF CONDUCTING

PATHS IN POLYMERANAL SYSTEMS

Lums Associates, Inc

Jang

Guang-Way

N 24
03/03/94
\$500,000LEE
94-MC-146

PROCESS DEVELOPMENT FOR THE MANUFACTURE OF ACRYLIC FLUOROCARBON

OPTICAL FIBER CLADDING POLYMERS

Optical Polymer Research

Schuman

Paul

N 24
03/03/94
\$725,502LEE
94-MC-147

381R94 NOVEL SOL-GEL BASED INTERPENETRATING POLYMER NETWORKS AS

PRACTICAL SECOND-ORDER NONLINEAR OPTICAL MATERIALS

Molecular Technologies, Inc

Chen

Jong-I

N 24
03/03/94
\$499,064LEE
94-MC-148

ENERGY TRANSFER PROCESSES IN IODINE LASERS

Emory University

Heaven

Michael

N 36
03/03/94
\$324,698BERMAN
94-MC-149

FOURIER TRANSFORM SPECTROSCOPY OF NOVEL PROPELLANT MOLECULES

Univ of Waterloo

Barnath

Peter

N 36
08/03/94
\$224,462BERMAN
94-MC-150

LASER AND ION BEAM ASSISTED DEPOSITION OF HIGH TEMPERATURE WEAR

RESISTANT COATINGS ON TITANIUM ALLOYS

North Carolina State University

Kasichainulu

Jagannadham

N 35
11/03/94
\$495,354WARD
94-MC-151

2,4 CATALYZED REGIOSELECTIVE COPOLYMERIZATION OF AROMATIC COMPOUNDS

2,4-DIISOCYANATE POLYMERIZATION OF ARYL C-H BONDS ACROSS C-C DOUBLE BONDS...

Univ of Southern California

Weber

William

N 36
11/03/94
\$448,570D
LEE
94-MC-152

SPINOCYCLOPOLYMERIZATION - 2,2-DI-9 CHEMISTRY

Univ of Southern California

Weber

William

N 36
11/03/94
\$453,676D
LEE
94-MC-153

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SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF NEW LIGHT ELEMENT INORGANIC OXIDIZERS, FUELS AND MONOPROPELLANTS McMaster University	Schrobligen	N 36 11/03/94 \$630,117	BERMAN 94-NC-154	
FUNDAMENTAL STUDIES OF HIGH ENERGY DENSITY MOLECULAR SYSTEMS Univ of Georgia	Schaefer III	N 36 15/03/94 \$525,340	BERMAN 94-NC-155	
MECHANICAL PROPERTIES AND PHASE TRANSFORMATIONS OF LAVES PHASES Josep Western Reserve University	Pirouz	N 34 15/03/94 \$453,000	WARD 94-NC-156	
MICROSTRUCTURAL DESIGN OF TOUGH CERAMICS FOR CONTACT DAMAGE RESISTANCE Lehigh University	Chen	N 36 15/03/94 \$810,317	PECHENIK 94-NC-157	
REFRACTORY-METAL-DISPERSION STRENGTHENED NIAL Massachusetts Institute of Technology	Dunand	N 12 15/03/94 \$34,225	WARD 94-NC-158	
THIN FILM DECOMPOSITION OF RDX, TNT AND HMX/TNT (SNL PROPOSAL NO. 130060, CAS. NO. 4931-000) Dept of Energy - Albuquerque User Office	Davidson	N 48 17/03/94 \$300,000	D BERMAN 94-NC-159	
1994 GORDON RESEARCH CONFERENCE ON INORGANIC CHEMISTRY Corion Research Conference Inc	Kubas	N 12 22/03/94 \$5,500	D ERSTFELD 94-NC-160	
FAST RESPONSE LIQUID CRYSTALS FOR ELECTRO-OPTIC APPLICATIONS Hughes Aircraft Corp Research Labs	Wu	N 36 23/03/94 \$449,994	A LEE 94-NC-161	\$50,000 01/07/94 \$450,000
HIGH ENERGY FORMS OF OXYGEN Univ of Colorado	Michl	N 36 23/03/94 \$456,308	BERMAN 94-NC-162	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PROPAGATING POLYMERIZATION FRONTS Univ of Southern Mississippi	Pojman John	N 36 23/03/94 \$245,200	LEE 94-MC-163	
STUDY OF THE COMPRESSION BEHAVIOR OF HIGH PERFORMANCE FIRERS Georgia Tech Research Corporation	Kumar Satish	R 12 24/03/94 \$79,986	A LEE 94-MC-164	\$79,957 01/07/94 \$80,000
METAL-STABILIZED DELOCALIZATION IN HYDROGEN CLUSTER POLYMERS Univ of New Mexico	Ortiz J.	N 36 29/03/94 \$327,771	D BERMAN 94-MC-165	
FUNDAMENTAL INVESTIGATIONS OF CREEP IN PARTICLE-STRENGTHENED Nb-Ti -AL-CR ALLOYS Univ of California, Davis	Mukherjee Anlyn	N 36 29/03/94 \$567,996	WARD 94-MC-166	
EXPERIMENTAL STUDIES TO PRODUCE AND CHARACTERIZE METALLIC HYDROGEN AT MEGABAR PRESSURES Harvard University	Silvera Isaac	N 36 29/03/94 \$555,939	BERMAN 94-MC-167	
SINGLE CRYSTALS GROWN FROM POLYCRYSTALLINE PRECURSORS Lehigh University	Harner M.	N 36 29/03/94 \$974,803	PECMENIK 94-MC-168	
SUPPLEMENTARY FUNDS FOR THE 12TH INTERNATIONAL SYMPOSIUM ON PLASMA CHEMISTRY (IUPAC 12) Itasca Consulting Group Inc	Heberlein Joachim	N 12 29/03/94 \$9,000	D BERMAN 94-MC-169	
CHARACTERIZATION OF CRITICAL FUNDAMENTAL AGING MECHANISMS OF HIGH TEMPERATURE POLYMER MATRIX COMPOSITES Michigan State University	Morgan Roger	N 36 31/03/94 \$363,185	LEE 94-MC-170	
Mechanical Properties of Internal Interfaces in Applied Stress Effuse Computer Simulation Studies Northeastern University	Seldman David	N 36 31/03/94 \$400,000	WARD 94-MC-171	

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LITHIUM OXALIDES - A COMPUTATIONAL STUDY				
Univ of Alabama	Laanertsm	N 36 31/03/94 \$391,758	BERMAN 94-NC-172	
HIGH ENERGY DENSITY SYSTEMS IN CRYOGENIC MEDIA: STRUCTURE, DYNAMICS AND ENERGY STORAGE				
Northwestern University	Waltz	N 36 31/03/94 \$429,126	BERMAN 94-NC-173	
SOLID STATE CRYSTAL CONVERSION				
General Electric Co	Levinson	N 24 31/03/94 \$994,037	PECHEMIK 94-NC-174	
THE BEHAVIOR OF VARIOUS ATOMIC IMPURITIES STABILIZED IN SOLID H ₂ AND O ₂ MATRICES				
Colorado State University	Etters	N 12 31/03/94 \$71,367	BERMAN 94-NC-175	
CRYOGENIC SOLID OXIDIZERS AND SOLID FUEL ADDITIVES				
ICI International	Saxon	N 36 31/03/94 \$458,109	BERMAN 94-NC-176	
THE MICROSTRUCTURAL OPINIONS OF PRIMARY CREEP RESISTANCE IN TITANIUM ALLOYS				
Univ of Virginia	Wert	N 36 31/03/94 \$409,603	WARD 94-NC-177	
AN INITIO CALCULATIONS TO SUPPORT THE EXPERIMENTAL CHARACTERIZATION OF SMALL MOLECULES OF INTEREST TO THE MEDPROPROGRAM				
ADA - Ames Research Center	Bauschlicher, Jr.	N 36 31/03/94 \$286,600	BERMAN 94-NC-178	
LAYER STRUCTURE COMPOUNDS AS BOUNDARY PHASES IN CERAMIC MATRIX COMPOSITES				
Arizona State University	Petuskey	N 36 31/03/94 \$678,369	PECHEMIK 94-NC-179	
A FUNDAMENTAL STUDY ON THE THERMODYNAMIC, KINETIC AND MECHANICAL STABILITIES OF INTERFACES IN SIC-FIBER REINFORCED TITANIUM MMCs				
Univ of Wisconsin	Chang	N 36 31/03/94 \$465,000	WARD 94-NC-180	

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STRAIN RATE AND TEMPERATURE EFFECTS IN TI-MODIFIED NB3AL INTERMETALLICS Univ of California, San Diego	Vecchio Kenneth	N 36 31/03/94 \$448,732	WARD 94-MC-181	
A NEW MODEL OF THE BRITTLE-TO-DUCTILE TRANSITION BASED ON A COLLECTIVE DISLOCATION GENERATION INSTABILITY: THEORY & EXPERIMENT Univ of Pennsylvania	Pope David	N 36 31/03/94 \$590,300	WARD 94-MC-182	
NON-OXIDE STRUCTURAL CERAMICS -- A LOY DESIGN FOR IMPROVED SINTERABILITY AND MECHANICAL PERFORMANCE Univ of Michigan	Chen I-Wei	N 36 31/03/94 \$997,062	PECHENIK 94-MC-183	

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SURFACE-EMITTING SECOND-HARMONIC GENERATION AND NONLINEAR OPTICAL DEVICES USING SEMICONDUCTOR ASYMMETRIC QUANTUM WELL STRUCTURES Boaling Green University	Diny	N 12 03/01/94 \$25,000	A CRAIG 94-NE-088	\$25,000 01/01/94 \$25,000
ROOM TEMPERATURE MICROPARTICLE BASED PERSISTENT SPECTRAL HOLE BURNING Polytechnic University	Arnold	N 24 03/01/94 \$161,670	A CRAIG 94-NE-089	\$85,999 15/03/94 \$161,670
(MHCUMI 94) A STUDY OF EFFICIENT PLASMA SOURCES Knoxville College	Redar	N 36 04/01/94 \$561,486	A BARKER 94-NE-090	
STORAGE AND TRANSPORT OF ANTIPOTONS Pennsylvania State University	Smith	R 12 04/01/94 \$90,720	A KELLEY 94-NE-092	\$90,720 15/04/94 \$90,720
QUANTUM TRANSPORT IN ULTRASMALL DEVICES Arizona State University	Ferry	N 12 04/01/94 \$6,300	D POMRENKE 94-NE-093	
EPITAXIAL GROWTH AND CHARACTERIZATION OF SIC(1-AD)SIC(1-AD) MATERIALS AND DEVICES Univ of Michigan	Anakkacharya	R 35 13/01/94 \$469,465	A MITT 94-NE-094	\$150,000 15/08/94 \$469,465
COMPONENT ELECTRONICS Univ of Notre Dame	Lent	N 36 14/01/94 \$360,000	POMRENKE 94-NE-095	
INVESTIGATION OF A UNIFORM GLOW DISCHARGE PLASMA IN ATMOSPHERIC AIR Univ of Tennessee	Roth	N 36 14/01/94 \$119,854	A BARKER 94-NE-096	\$39,918 15/04/94 \$119,854
COOLING AND TRAPPING OF ATOMS AND PARTICLES Stanford University	Chu	R 36 19/01/94 \$770,777	A KELLEY 94-NE-037	\$192,000 01/09/94 \$602,000

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INTERNATIONAL SYMPOSIUM ON GUIDED-WAVE OPTOELECTRONICS: DEVICE CHARACTERIZATION, ANALYSIS AND DESIGN polytechnic University	T. Blair	N 18 26/01/94 \$5,000	SCHLOSSER 94-NE-098	
FORTY SEVENTH ANNUAL GASEOUS ELECTRONICS CONFERENCE National Inst. of Standards & Technology	Van Brunt	N 12 26/01/94 \$8,000	KELLEY 94-NE-099	
CARRIER DYNAMICS AND DEFECTS IN GAAS AND RELATED PHOTOCONDUCTORS Univ of Michigan	Norris	N 36 26/01/94 \$497,791	WITT 94-NE-100	
(SMP) S-PICOSSECOND PHOTOCONDUCTIVE SAMPLING OSCILLOSCOPE OPTOTRONIX	Williamson	N 06 02/02/94 \$60,000	A WITT 94-NE-101	\$60,000 15/06/94 \$80,000
(SMP) MID-INFRARED DIODE LASERS USING NON-STOICHIOMETRIC SEMI-INSULATING ALGaAs(Si) Sensors Unlimited Inc	Vermaak	N 06 02/02/94 \$59,573	D WITT 94-NE-102	
(SMP) INVESTIGATION OF PLANAR OPTICAL WAVEGUIDES AND MODULATORS IN LOW TEMPERATURE GROWN (LTG) GALLIUM ARSENIDE (GAAS) Texas Research Corp	Cites	N 06 02/02/94 \$59,983	D WITT 94-NE-103	
(SMP) ULTRAFAST PHOTOCONDUCTORS ON NON-STOICHIOMETRIC GaAs Intrac Corporation	Nomivar	N 06 02/02/94 \$59,981	D WITT 94-NE-104	
(SMP) TRAVELLING WAVE OPTICAL MODULATORS USING NON-STOICHIOMETRIC GaAs TO MATCH THE GUIDED OPTICAL AND MICROWAVE VELOCITIES APA Optics Inc	Boord	N 06 02/02/94 \$59,925	D WITT 94-NE-105	
(SMP) OPTO-ELECTRONIC COMPONENTS FROM NON-STOICHIOMETRIC III-V MATERIALS Scientific Research Associates, Inc.	Grubin	N 06 02/02/94 \$59,960	A WITT 94-NE-106	\$59,960 15/06/94 \$59,960

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(SAR) COMPACT LIGHT SOURCES BASED ON NON-LINEAR OPTICS Schwartz Electro-Optics Inc	Acharekar Madhu	N 06 02/02/94 \$59,771	D SCHLOSSBER 94-NE-107	
(SAR) PICOSECOND MICROLASER FOR EFFICIENT NONLINEAR CONVERSION Navy Communication Research Corporation	McIntyre Ian	N 06 02/02/94 \$59,938	D SCHLOSSBER 94-NE-108	
(SAR) COMPACT LIGHT SOURCE ON GUIDED WAVE NONLINEAR FREQUENCY CONVERSION L-Tek Dynamics Incorporated	Pin J	N 06 02/02/94 \$59,977	D SCHLOSSBER 94-NE-109	
(SAR) FREQUENCY-DOWNLOD QWDL LASER Potomac Synoptic Inc. (PSI)	Corcoran V	N 06 02/02/94 \$99,113	D SCHLOSSBER 94-NE-110	
(SAR) COMPACT SOURCES OF COHERENT VISIBLE LIGHT Astralux	Rice Robert	N 06 02/02/94 \$59,997	D SCHLOSSBER 94-NE-111	
(SAR) EFFICIENT THREE-COLOR GENERATION FOR PROJECTION DISPLAY Schwartz Electro-Optics Inc.	Moulton Peter	N 06 02/02/94 \$58,540	D SCHLOSSBER 94-NE-112	
(SAR) A COMPACT AND EFFICIENT VIOLET LASER SOURCE Lightwave Electronics Corporation	Gerstenberger D	N 06 02/02/94 \$60,000	A SCHLOSSBER 94-NE-113	\$60,000 15/06/94 \$60,000
(SAR) DOUBLED WDM LASER Beicon Research Co	Daicon David	N 06 02/02/94 \$60,000	A SCHLOSSBER 94-NE-114	\$60,000 15/06/94 \$80,000
(SAR) ACTIVE OPTOELECTRONIC STABILIZATION OF HIGH POWER DIODE LASERS Foster-Miller Inc	Domash Lawrence	N 06 02/02/94 \$53,959	D SCHLOSSBER 94-NE-115	

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(SIRD) UV, BLUE AND GREEN VERTICAL CAVITY LASERS Optical Concepts, Inc	Peters Frank	N 06 02/02/94 \$49,962	D SCHLOSSER 94-NE-116	
(SIRD) CW INTRACAVITY DOUBLED LASEP Cynos Laser Corporation	Pierce Jeff	N 06 02/02/94 \$60,000	D SCHLOSSER 94-NE-117	
(SIRD) DIODE PUMPED TUNABLE (1.35 - 1.55 UM) SOLID STATE LASER SOURCE Physical Optics Corporation	Sparsos Kalin	N 06 02/02/94 \$59,998	D SCHLOSSER 94-NE-118	
PROPOSAL FOR MODELLING INNER-SHELL PHOTO-IONIZATION X-RAY LASERS Univ of Georgia	Strobel George	N 12 03/02/94 \$53,786	D SCHLOSSER 94-NE-119	
OPTIMIZATION OF FABRY-PEROT MULTI-QUANTUM WELL OPTICAL MODULATORS Univ of Missouri	Meese Jon	N 36 03/02/94 \$490,473	CRAIG 94-NE-120	
NOVEL FREQUENCY CONVERSION PHENOMENA BASED ON POLED POLYMERS Univ of Central Florida	Stegeman George	N 36 03/02/94 \$773,826	CRAIG 94-NE-121	
DEFECT-INDUCED OPTICAL PROPERTIES OF SILICA AND DEFECT ENERGETICS OF ZnGeP2 Michigan Technological University	Pandey Ravi	N 12 03/02/94 \$24,990	A POMRENKE 94-NE-122	\$41,804 15/04/94 \$41,804
COPIESCOR-33) PERSISTENT SPECTRAL HOLE BURNING MATERIALS FOR TIME- AND FREQUENCY DOMAIN OPTICAL MEMORIES AND SIGNAL PROCESSING Montana State University	Cone Rufus	N 36 07/02/94 \$450,434	CRAIG 94-NE-123	
COPIESCOR-33) NON-DESTRUCTIVE TESTING OF OPTOELECTRONIC DEVICES AND SYSTEMS AT PUELLER MATRIX IMAGING POLARIMETRY Univ of Alabama	Chidman Russell	N 36 07/02/94 \$433,747	CRAIG 94-NE-124	

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COEPSCOR-33) SPATIAL LIGHT MODULATORS PROPERTIES ON OPTICAL PROCESSOR PERFORMANCE Univ of Louisville	Cohn	N 36 07/02/94 \$421,807	CRAIG 94-NE-125	
COEPSCOR-33) GUIDED-WAVE, ELLIPSOIDOMETRY AND POLARIMETRY Univ of New Orleans	Azzam	N 36 07/02/94 \$400,100	CRAIG 94-NE-126	
COEPSCOR 33) ADVANCED CABLE AND WIRE ASSEMBLY Univ of Vermont	Huston	N 36 07/02/94 \$334,163	CRAIG 94-NE-127	
COEPSCOR 33) PHOTOASSISTED CHEMICAL VAPOR DEPOSITION FOR PACKAGING AND FABRICATION OF ALG-AND GAP SEMICONDUCTING DEVICES Univ of Nebraska	Woods	N 36 07/02/94 \$357,111	A WITT 94-NE-128	\$351,111 01/09/94 \$351,111
COEPSCOR 33) DESIGN AND MODELING OF SILICON-GERMANIUM BIPOLAR TECHNOLOGY FOR WIRELESS COMMUNICATIONS Auburn University	Cressler	N 36 07/02/94 \$271,767	WITT 94-NE-129	
COEPSCOR 33) ULSI DESIGN-FOR-MANUFACTURABILITY: A FIELD ENHANCEMENT APPROACH Univ of Southeastern Louisiana	Bayoumi	N 36 07/02/94 \$395,082	WITT 94-NE-130	
COEPSCOR 33) A DESIGN METHODOLOGY FOR SYNTHESIS OF APPLICATION SPECIFIC MULTI-CHIP MODULE ARCHITECTURES Univ of Southeastern Louisiana	Bayoumi	N 36 07/02/94 \$289,074	WITT 94-NE-131	
COEPSCOR 33) SELECTIVE DEPOSITION AND DOPING OF DIAMOND FILMS ON SILICON SUBSTRATES USING ION IMPLANTATION Univ of Southeastern Louisiana	Glass, Sr	N 36 07/02/94 \$638,957	WITT 94-NE-132	
COEPSCOR 33) HIGH EFFICIENCY MULTIPLE-OUTPUT POWER CONVERSION FOR AIRCRAFT APPLICATIONS North Dakota State University	Tuvvarajan	N 36 07/02/94 \$145,402	WITT 94-NE-133	

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DEPSCOR 93) EXPLORATORY PSEUDOMORPHIC COMPLEMENTARY HETEROJUNCTION BIPOLAR TRANSISTORS FOR HIGH SPEED APPLICATIONS Louisiana State University	Ikoussi-Anastasiou Kiki	N 36 07/02/94 \$372,427	WITT 94-NE-134	
DEPSCOR 93) PHYSICS AND MODELING OF ELECTRON TRANSPORT IN ULTRA- FAST SEMICONDUCTOR DEVICES Univ of New Orleans	Cheng Ming-Cheng	N 36 07/02/94 \$272,363	WITT 94-NE-135	
DEPSCOR 93) DEVELOPMENT OF AN EFFICIENT SUB-MICRON DEVICE SIMULATOR FROM A VELOCITY-SPACE TRANSPORT MODEL North Dakota State University	Dunn Douglas	N 36 07/02/94 \$165,319	WITT 94-NE-136	
DEPSCOR 93) IMPROVED METHODS FOR MICROWAVE MEASUREMENTS Univ of Mississippi	Smith Charles	N 36 07/02/94 \$267,719	WITT 94-NE-137	
DEPSCOR 93) CROSSTALK REDUCTION IN INTEGRATED CIRCUITS AND MICROWAVE AND MILLIMETER WAVE INTERCONNECTIONS Univ of Mississippi	Elsherbeni Atef	N 36 07/02/94 \$254,493	WITT 94-NE-138	
DEPSCOR 93) LINEAR/NON-LINEAR TRANSFER FUNCTION MODELS FOR THE STRUCTURAL/BEHAVIORAL DESCRIPTION OF MICROWAVE/ANALOG SYSTEMS MOHL Univ of Mississippi	Hanson Donald	N 36 07/02/94 \$325,829	D WITT 94-NE-139	
DEPSCOR 93) PLASMA DEPOSITION OF YBCO SUPERCONDUCTIVE FILMS ON FETALS University of Idaho	Yeh Wei Jiang	N 36 07/02/94 \$300,612	WEINSTOCK 94-NE-140	
DEPSCOR 93) CONVERSION ELECTRON SURFACE IMAGING Louisiana State University	Irwin George	N 36 07/02/94 \$217,433	WEINSTOCK 94-NE-141	
DEPSCOR 93) LASER-CHEMICAL VAPOR DEPOSITION OF SILICON CARBIDE FOR HIGH TEMPERATURE/HIGH POWER ELECTRONICS Iuburn University	Tin Chin-Che	N 36 07/02/94 \$406,652	POMRENKE 94-NE-142	

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COMPSCOR 93) A COMPREHENSIVE MATHEMATICAL MODEL FOR FLOATING-ZONE SINGLE CRYSTAL GROWTH PROCESSES Louisiana State University	LI Ben	N 36 08/02/94 \$172,143	POMRENKE 94-NE-143	
COMPSCOR 93) NOVEL ELECTRONIC MATERIALS AND DEVICES: THEORY, MODELING AND SIMULATION Univ of Nevada	Venkatesubramanian R	N 36 08/02/94 \$467,710	POMRENKE 94-NE-144	
COMPSCOR 93) LIGHT-EMITTING SILICON DEVICES USING OPTICALLY ACTIVE EPIMON CENTERS Univ of Vermont	Varnue Walter	N 36 08/02/94 \$287,012	A POMRENKE 94-NE-145	\$277,012 01/08/94 \$277,012
COMPSCOR 93) PHOTOVOLTAIC NCE/ELECTRON PARAMAGNETIC RESONANCE STUDIES TO IMPROVE THE PERFORMANCE OF TUNABLE INFRARED LASER MATL West Virginia University	Giles Nancy	N 36 08/02/94 \$224,397	POMRENKE 94-NE-146	
COMPSCOR 93) EXCITATION NONLINEAR OPTICAL PROPERTIES IN GAAS QUANTUM WELL WIPR STRUCTURES WITH ELECTRON-HOLE PLASMA EFFECTS Univ of Alabama	Madarasz Frank	N 36 08/02/94 \$245,790	POMRENKE 94-NE-147	
COMPSCOR 93) A STUDY OF THE PHOTOREFRACTIVE BEHAVIOR OF BISMUTH SILICON OXIDE AND RELATED MATERIALS Oklahoma State University	Martin Joel	N 36 08/02/94 \$224,999	POMRENKE 94-NE-148	
COMPSCOR 93) ENGINEERING AND CHARACTERIZATION OF HIGH SPEED, HIGH SENSITIVITY INGaAs/AlGaAs SYNTHETIC SEMICONDUCTORS Univ of Arkansas	Salamo Gregory	N 36 08/02/94 \$192,667	POMRENKE 94-NE-149	
COMPSCOR 93) AN INVESTIGATION OF NOVEL MONOLITHIC SLAPPER DETONATORS Auburn University	Beginski Thomas	N 36 08/02/94 \$307,448	BARKER 94-NE-150	
COMPSCOR 93) SIMULATION OF A PLANAR ARRAY OF ELECTRICAL DETONATOR ELEMENTS Kansas State University	Carpenter Kenneth	N 36 08/02/94 \$149,206	BARKER 94-NE-151	

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(OFPSCOR 93) PARTICLE SIMULATIONS OF PLASMAS Univ of Missouri	Murphy Richard	N 36 08/02/94 \$195,387	BARKER 94-NE-152	
(OFPSCOR 93) ADVANCED OPTICAL DIAGNOSTICS OF HIGH DENSITY ETCHING PLASMAS Univ of Nebraska	Inano N	N 36 08/02/94 \$384,609	BARKER 94-NE-153	
(OFPSCOR 93) EXPERIMENTAL AND THEORETICAL STUDIES OF NOVEL EFFECTS DUE TO QUANTUM COHERENCE IN MULTI-LEVEL MEDIA Univ of Arkansas	Kiao Min	N 36 08/02/94 \$298,072	SCHLOSSBER 94-NE-154	
(OFPSCOR 93) A PROPOSED VERY-HIGH-POWER SINGLE-MODE 2D-ARRAY OF SURFACE-EMITTING TRIANGULAR RING LASER Univ of New Orleans	Lee Shing	N 36 08/02/94 \$245,291	SCHLOSSBER 94-NE-155	
(OFPSCOR 93) FABRICATION OF HIGH OPERATING TEMPERATURE 400-INFRARED LASERS Univ of Oklahoma	McCann Patrick	N 36 08/02/94 \$526,565	SCHLOSSBER 94-NE-156	
(OFPSCOR 93) EXPERIMENTAL STUDIES OF THE INTERACTION OF NEGATIVE IONS WITH INTENSE ELECTROMAGNETIC RADIATION Univ of Nevada	Thompson Jeffrey	N 36 08/02/94 \$251,698	KELLEY 94-NE-157	
(OFPSCOR 93) ELECTRONICS FOR HIGH RESOLUTION X-RAY IMAGING - CSI MICROELECTRONICS AND AMORPHOUS SILICON READOUT ARRAYS Louisiana State University	Cherry Michael	N 36 08/02/94 \$353,247	SMITH 94-NE-158	
(OFPSCOR 93) DEVELOPMENT OF THERMAL-SENSOR-BASED MICRODOSIMETERS/ TECHNIQUES FOR MEASURING/PREDICTING THE TEMPERATURES IN THIN Louisiana State University	Hyrum Tod	N 36 08/02/94 \$364,207	SMITH 94-NE-159	
RESEARCH STUDIES ON ELECTROMAGNETICALLY INDUCED TRANSPARENCY Stanford University	Harris S.	R 36 17/02/94 \$1,379,258	SCHLOSSBER 94-NE-160	

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COMBINATION, ELECTRON-EXCITED ATOM COLLISIONS AND ION-MOLECULE REACTIONS General Tech Research Corporation	Flannery Martin	R 12 18/02/94 \$105,000	A KELLEY 94-NE-161	\$105,000 01/07/94 \$105,000
(SIR) LOW TEMPERATURE 220NM ULTRAFAST DUAL-WINDOW PHOTODECTOR INTEGRATED BY THE EPITAXIAL LIFT-OFF TECHNIQUE Alond Photonics Inc	Smith Robert	N 06 22/02/94 \$59,647	D WITT 94-NE-162	
(SIR) LT GAASSE MULTICOLOR DETECTOR USING MBE MONOMER SOURCES SVI Associate Inc	Van Hove James	N 06 22/02/94 \$59,980	D WITT 94-NE-163	
(SIR) COMMERCIAL PHOTOGRAPHIC DEVICE USING NONSTOICHIOMETRIC III-V SEMICONDUCTORS Corb Tek Inc	Tayebati Parviz	N 06 22/02/94 \$60,059	A WITT 94-NE-164	\$60,000 15/06/94 \$60,000
(SIR) HIGH EFFICIENCY OPTICAL DETECTION AT 1300NM ON GAMS SUBSTRATES RLC Precision Laser Technology Inc	Mukherjee Sayan	N 06 22/02/94 \$60,000	D WITT 94-NE-165	
(SIR) DEVELOPMENT OF ULTRAFAST PHOTOCONDUCTIVE SWITCHES FOR 1.5 AND 1.55 MICRON UTILIZING NON-STOICHIOMETRIC III-V MATERIALS Bellwood Laboratories Inc	Harmon Eric	N 06 22/02/94 \$58,454	D WITT 94-NE-166	
(SIR) COMPACT, EFFICIENT BLUE LASER BASED ON UPCONVERSION IN THULIUM-DOPED ZBLAN FIBER Uniphase Corporation	Piehler David	N 06 22/02/94 \$59,870	D SCHLOSSER 94-NE-167	
(SIR) HIGH LUMINOSITY DIODE PUMPED BLUE LASER Venice Lasers	Pantanan Jouni	N 06 22/02/94 \$59,680	D SCHLOSSER 94-NE-168	
(SIR) PGM EXTERNAL CAVITY FOR DIODE-PUMPED SOLID-STATE LASERS IPSS Technology Co	Zhang Tony	N 06 22/02/94 \$59,910	D SCHLOSSER 94-NE-169	

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(SRI) MANUFACTURAL, WIDELY TUNABLE INTEGRATED SOLID STATE LASERS Corb Tek Inc	Parviz	N 06 22/02/94 \$60,000	D SCHLOSSBER 94-NE-170	
(SRI) REMOTELY-PUMPED SUM FREQUENCY LASER DEVELOPMENT Intelligence	Seidel	N 06 22/02/94 \$59,053	D SCHLOSSBER 94-NE-171	
(SRI) COMPACT HYBRID LASER East Stone Co	Y	N 06 22/02/94 \$60,000	D SCHLOSSBER 94-NE-172	
(SRI) LOW COST COMPACT BLUE LASER Spectra Diode Laboratories, Inc	Wearls	N 06 22/02/94 \$59,974	A SCHLOSSBER 94-NE-173	\$59,974 15/06/94 \$59,974
(SRI) LOW COST REMOTELY-DOUBLED BLUE LASER DIODES Spectra Diode Laboratories, Inc	Sanders	N 06 22/02/94 \$59,924	D SCHLOSSBER 94-NE-174	
(SRI) COMPACT LIGHT SOURCES BASED ON NON-LINEAR OPTICS Fluoroc Corporation	Chen	N 06 22/02/94 \$60,000	D SCHLOSSBER 94-NE-175	
(SRI) MULTI-WAVELENGTH HYPERPARAMETRIC AND REMOTELY-PUMPED TUNABLE SPRINT PUMPED BY LASER DIODES AND LASER DIODE PUMPED LASERS Light Solutions Corp	Moore	N 06 22/02/94 \$60,000	D SCHLOSSBER 94-NE-176	
(SRI) COMPACT BLUE LASER FOR DISPLAY APPLICATIONS Laser Power Corporation	Murphy	N 06 22/02/94 \$60,000	D SCHLOSSBER 94-NE-177	
(SRI) COMPACT TUNABLE LIGHT SOURCE BASED ON NON-LINEAR OPTICS Research Research Inc	Timothy	N 06 22/02/94 \$59,989	A SCHLOSSBER 94-NE-178	\$59,988 15/06/94 \$59,988

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ELECTROMIGRATION AND LOCAL FIELD EFFECTS IN MESOSCOPIC INTERCONNECTS Univ of Notre Dame	Bernstein	N 36 22/02/94 \$389,500	A POMRENE 94-NE-179	\$130,000 01/07/94 \$388,500
CONFERENCE ON FUTURE PROSPECTS FOR UV AND VUV LASERS United Engineering Trustees Inc	Frieman	N 12 25/02/94 \$10,000	A SCHLOSSBER 94-NE-180	\$5,000 27/02/94 \$5,000
A PROPOSAL FOR PARTIAL SUPPORT OF A WORKSHOP TO FURTHER DEVELOP INDUSTRIAL APPLICATIONS North Carolina State University	McCormick	N 12 25/02/94 \$10,025	A SCHLOSSBER 94-NE-181	\$10,000 10/03/94 \$10,000
1994 INTERNATIONAL CONFERENCE ON PLASMA SCIENCE Los Alamos Nat'l Lab--Appl Theor Phys Div	Peratt	N 03 28/02/94 \$10,000	A BARKER 94-NE-182	\$10,000 01/05/94 \$10,000
VAN DER ZIEL SYMPOSIUM ON QUANTUM 1/F NOISE AND OTHER LOW FREQUENCY FLUCTUATIONS IN ELECTRONIC DEVICES Univ of Missouri	Mandel	N 06 10/03/94 \$5,000	A WITT 94-NE-183	\$5,000 15/05/94 \$5,000
SEVENTH ROCH-ESTER CONFERENCE ON CONFERENCE AND QUANTUM OPTICS Univ of Rochester	Eberly	N 24 16/03/94 \$39,950	SCHLOSSBER 94-NE-184	
QUANTUM COOPERATIVE RADIATION IN SOLIDS Univ of Michigan	Rand	R 36 16/03/94 \$626,220	SCHLOSSBER 94-NE-185	
MASSIVELY PARALLEL PROCESSING WITH OPTICAL INTERCONNECTS Int'l Computer Society Press	Morris	N 06 17/03/94 \$4,605	A CRAIG 94-NE-186	\$4,605 01/06/94 \$4,605
SCATTERING OF MICROWAVES BY STEADY-STATE PLASMA SLABS, COLUMNS, AND LAYERS AT ATMOSPHERIC PRESSURE Univ of Tennessee	Laroussi	N 36 30/03/94 \$292,347	HARKER 94-NE-187	

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43E GROWTH AND CHARACTERIZATION OF SiGe FOR INFRARED DETECTOR APPLICATIONS Naval Research Laboratory	Thompson	N 36 30/03/94 \$316,000	A POMRENE 94-NE-188	\$45,000 15/07/94 \$256,000
LINEAR AND COHERENT CFA 3 FOR IN SITU MEASUREMENTS AND COMPARISON WITH NUMERICAL SIMULATIONS AND STUDY OF NOISE MECHANISMS Northeastern University	Chan	R 12 30/03/94 \$150,000	A BARKER 94-NE-189	\$150,000 30/09/94 \$150,000
EXPERIMENTAL AND THEORETICAL RESEARCH ON ADVANCED VACUUM ELECTRONIC MICROWAVE DEVICES Univ of Maryland	Destler	N 36 30/03/94 \$926,147	A BARKER 94-NE-190	\$264,939 30/09/94 \$915,901
STABLE, HIGH-POWER HARMONIC GYROTRON AMPLIFIERS Univ of California, Davis	Luhmann, Jr.	N 36 30/03/94 \$375,000	A BARKER 94-NE-191	\$125,000 01/09/94 \$375,000
STUDIES OF PHONON TRANSPORT IN SEMICONDUCTOR QUANTUM WIRES Old Dominion Univ Rsh Foundation Inc.	Joshi	N 36 30/03/94 \$150,128	D WITT 94-NE-192	
CMPD/SPIR) INDUCTIVELY COUPLED IR STAIRING ARRAY BASED ON PHOTOFLUXONIC PIXELS Quantum Magnetics, Inc.	Hubs	N 06 30/03/94 \$59,470	A WEINSTOCK 94-NE-193	\$54,274 15/07/94 \$59,470

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JOIN TRAVEL		N 03 03/01/94 \$8,809	A HUGHES 94-NI-005	\$8,809 94/01/01 \$8,809
Air Force Office of Scientific Research	Hughes			
Christopher				
HUMAN FACTOR ISSUES IN THE IMPLEMENTATION OF ADVANCED MANUFACTURING TECHNOLOGY	Dharmadkar	N 12 12/01/94 \$54,819	A HART 94-NI-006	\$54,819 16/05/94 \$54,819
South Carolina State University				
Shriram				
ADAPTIVE POLARIZATION - SPACE - TIME PROCESSING FOR AIRBORNE		N 08 01/02/94 \$58,177	A HART 94-NI-007	\$27,095 94/01/01 \$27,095
Synchrotron Univ - East Asia & Computer Eng	Ming			
Hong				
MICROWAVE EFFECTS IN HIGH TEMPERATURE SUPERCONDUCTING YBCO WEAK LINK JUNCTIONS	Jiang	N 12 15/02/94 \$53,256	A HART 94-NI-008	\$35,504 09/02/94 \$35,504
Northeastern University				
Hua				
INTEGRATED APPROACH TO GUIDANCE AND CONTROL OF ALTERNATE CONTROL TECHNOLOGY FLIGHT VEHICLES	Innocent	N 36 17/02/94 \$52,669	A ZARBO 94-NI-009	\$52,669 01/01/94 \$52,669
European Office of Aero Resn and Develop				
Mario				
CURRENT AND CONDUCTIVITY MEASUREMENTS IN OPTICALLY ACTIVE GLASSES		N 12 23/02/94 \$24,000	A HART 94-NI-010	\$23,884 15/04/94 \$24,000
Dartmouth College	Osterberg			
Ulf				
MECHANISM OF AMMONIUM PROCESSES IN AMMONIA FUEL CELLS	Miller	N 12 23/02/94 \$24,000	A HART 94-NI-011	\$24,000 15/04/94 \$24,000
Colorado School of Mines				
Arnold				
AIR FACULTY RESEARCH PROPOSALS FOR FY94		N 12 09/03/94 \$208,950	A SHELDON 94-NI-012	\$208,950 01/04/94 \$208,950
Air Force Institute of Technology	Bridgman			
STUDY OF LATE CURRENT, HOT ELECTRON EFFECTS AND SUBTHRESHOLD BEHAVIOR IN HFFETS	Schuermeier	N 03 21/03/94 \$17,000	A ZARBO 94-NI-013	\$17,000 26/04/94 \$17,000
Wright Lab				
Fritz				

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BIOFLUORESCENT DETECTION OF ENVIRONMENTAL (PRO) MUTAGENS IN STREPTOMYCES GRISSEUS DuPont Central Research Development	Serieslani	N 36 05/01/94 \$240,000	KOZUMBO 94-NL-059	
PERCEPTUAL REPRESENTATIONS AND PROCESSES FOR COMPLEX SOUNDS State University of New York	Samuel	R 36 05/01/94 \$365,595	TANGNEY 94-NL-060	
CONTINUING CORE SUPPORT FOR COMMITTEE ON HUMAN FACTORS National Academy of Sciences	Huey	N 12 14/01/94 \$70,000	TANGNEY 94-NL-061	\$70,000 01/10/93 \$70,000
ALT-AZ CCD-SCANNING: ASTEROID HAZARDS Univ of Arizona	Gehrels	N 24 25/01/94 \$330,000	RADOSKI 94-NL-062	\$150,000 01/04/94 \$150,000
OPTIMAL VIBRATION CONTROL FOR PILOT HEAD/NECK STABILITY OR PERFORMANCE Univ of Illinois - Chicago	Amirouche	N 24 25/01/94 \$118,213	COLLINS 94-NL-063	
COMMITTEE ON SEISMOLOGY National Academy of Sciences	Linn	N 12 26/01/94 \$30,000	DICKINSON 94-NL-064	\$30,000 01/04/94 \$30,000
EVALUATION OF PULSED LASER AS A VISUAL STIMULANT The Armed Forces Otolithology Research	Kandassamy	N 36 31/01/94 \$346,881	HADDAD 94-NL-065	
CONTROL OF CARCINOGEN BEHAVIOR BY TRANSPLANTED SUPRACHIASMATIC NUCLEI AND BY THE TAU G PROTEIN Univ of Virginia	Mensker	N 36 07/02/94 \$480,044	HADDAD 94-NL-066	\$150,000 01/09/94 \$470,000
AIR-14 IMPROVED DIAL SYSTEM FOR MEASUREMENT OF ATMOSPHERIC WATER VAPOR AND TEMPERATURE Southwest Sciences, Inc.	Hovde	N 08 14/02/94 \$60,000	KROLL 94-NL-067	

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SAIR-94 REMOTE SENSING USING ULTRA BROADBAND RADIATION Center For Remote Sensing	Ganguly Suman	N 08 14/02/94 \$80,000	KROLL 94-NL-068	
SAIR-94 SPACE-BASED REMOTE SENSING OF STRATOSPHERIC/TROPOSPHERIC OZONE AND SULFUR DIOXIDE FOR AIRCRAFT GUIDANCE CONTROL Physical Sciences Inc	Rawlins W. Terry	N 06 14/02/94 \$59,977	KROLL 94-NL-069	
SAIR-94 REMOTE ATMOSPHERIC SENSOR SYSTEMS Center For Remote Sensing	Ganguly Suman	N 08 14/02/94 \$100,000	D KROLL 94-NL-070	
SAIR-94 A METEOROLYNE LIDAR FOR RANGE RESOLVED REMOTE SENSING OF TEMPERATURE, WIND SPEED, AND BACKSCATTER RATIO Photometrics, Inc.	Garner Richard	N 08 14/02/94 \$79,058	D KROLL 94-NL-071	
NATIONAL ACADEMY OF SCIENCE BASC National Science Foundation	Fein Jay	N 12 14/02/94 \$10,000	A KROLL 94-NL-072	\$10,000 01/03/94 \$10,000
THE BIOLOGY, CHEMISTRY AND MODELING OF VISION: VISUAL PROCESSING Fed. Of American Soc. For Experimental Biology	Masland Richard	N 12 15/02/94 \$5,000	D TANGNEY 94-NL-073	
DEEP-SEA MODELING THE EFFECT OF LARGE-SCALE HETEROGENEITY ON REGIONAL SEISMIC AVEERDENS USING HYBRID SYNTHETICS Univ of South Carolina	Rindall George	N 36 16/02/94 \$179,934	DICKINSON 94-NL-074	
DEEP-SEA DETECTION, LOCATION, AND SOURCE CHARACTERIZATION OF REGIONAL EVENTS USING A SMALL BROADBAND ARRAY Louis State University	Zollweg James	N 36 16/02/94 \$280,452	DICKINSON 94-NL-075	
DEEP-SEA SEISMIC WAVE SCATTERING AND CRUSTAL STRUCTURE Univ of New-13	Anderson John	N 36 16/02/94 \$284,292	DICKINSON 94-NL-076	

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DEPSCOR93 EXPLOSION DETECTION THRESHOLDS AND LATERAL VARIATIONS IN EURASIA St. Louis University	Mitchell Brian	N 36 16/02/94 \$145,740	DICKINSON 94-NL-077	
DEPSCOR93 CALIBRATION OF NUCLEAR MONITORING USING UNIQUE SEISMIC DATA SETS FROM THE FORMER SOVIET UNION Univ of Wyoming	Smithson Scott	N 36 16/02/94 \$520,648	DICKINSON 94-NL-078	
DEPSCOR93 COGNITION, SPATIAL ORIENTATION, AND NITRIC OXIDE Univ of Arkansas	Lyon Melvin	N 36 16/02/94 \$464,717	COLLINS 94-NL-079	
DEPSCOR93 BIOLOGICAL AND SOCIAL CORRELATES OF SPATIAL COGNITION Univ of New Orleans	Alexander Gerianne	N 36 16/02/94 \$150,105	COLLINS 94-NL-080	
COMMITTEE ON SEISMOLOGY: STUDY ON HIGH-PERFORMANCE COMPUTING National Academy of Sciences	Benson William	N 12 16/02/94 \$15,000	A DICKINSON 94-NL-081	\$15,000 01/06/94 \$15,000
SPR94 MULTI-USE DIFFERENTIAL ABSORPTION LIDAR SOURCE Candela Laser Corporation	Russell Jeffrey	N 06 17/02/94 \$59,988	D KROLL 94-NL-082	
SPR94 LOW-TEMPERATURE INTEGRATED SOUNDING SYSTEM Boulder Nonlinear Systems	Serati Steven	N 06 17/02/94 \$59,973	D KROLL 94-NL-083	
DEPSCOR93 SYSTEMATIC ASSESSMENT OF TOXICITY AND ANTIDOTAL EFFECTIVENESS IN MULTIPOLISONING BY SODIUM AND CYANIDE Univ of Mississippi Medical Center	Hume Arthur	N 36 23/02/94 \$577,768	KOZUMBO 94-NL-084	
DEPSCOR93 COMPARATIVE ORGANOPHOSPHATE EFFECTS ON ACETYLCHOLINE RECEPTORS AND ACETYLCHOLINESTERASE Mississippi State University	Chambers Janice	N 36 23/02/94 \$519,390	KOZUMBO 94-NL-085	

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DEPCOR93 EFFECT OF HEXAVALENT CHROMIUM ON THE METABOLISM OF PROTEOLYTIC ENZYMES IN THE LUNG Iulius Univ -- School of Medicine	Radhakrishnamurthy Bhandaru	N 36 23/02/94 \$588,202	KOZUMBO 94-NL-086	
DEPCOR93 METABOLIC ACTIVATION OF TRICHLOROACETIC ACID Iulius Univ -- School of Medicine	Bernofsky Carl	N 36 23/02/94 \$267,166	KOZUMBO 94-NL-087	
DEPCOR93 A PROPOSAL FOR RESEARCH LEVEL MASS SPECTROMETER COMPONENTS Montana State University	van Kuijk Frederik JGM	N 12 23/02/94 \$129,000	A KOZUMBO 94-NL-088	\$129,000 01/09/94 \$129,000
DEPCOR93 MOLECULAR INTERACTION OF HUMAN NEUTROPHIL NADPH OXIDASE COMPONENTS Montana State University	Quinn Mark	N 36 23/02/94 \$337,131	KOZUMBO 94-NL-089	
DEPCOR93 CAFFEINE METABOLISM AS A BIOLOGIC MARKER OF LIVER FUNCTION AFTER EXPOSURE TO HALOGENATED HYDROCARBONS Idaho State University	Jarvi Eric	N 36 23/02/94 \$242,676	KOZUMBO 94-NL-090	
DEPCOR93 MODULATION OF THE NITRIC OXIDE SYSTEM IN INFECTION AND Sepsis LSU Medical Center in New Orleans	Greenberg Stan	N 36 23/02/94 \$926,065	KOZUMBO 94-NL-091	
DEPCOR93 CONTAMINANT PARTITIONING IN SOIL MICROENVIRONMENTS: EFFECTS ON SELECTION OF CONTAMINANT-DEGRADING MICROORGANISMS Montana State University	Inskeep William	N 36 23/02/94 \$473,951	KOZUMBO 94-NL-092	
DEPCOR93 MECHANISMS OF MICROBIAL DEGRADATION OF CYCLIC NITRIMINE Univ of Wyoming	Sahle David Scott	N 36 28/02/94 \$1,098,595	KOZUMBO 94-NL-093	
DEPCOR93 INNOVATIVE BIOMONITORING TO ASSESS ENVIRONMENTAL RISK AND REMEDIATION AT MILITARY INSTALLATION Oklahoma State University	Ostrander Gary	N 36 28/02/94 \$299,637	KOZUMBO 94-NL-094	

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DEPSCOR 93 THE SITU POLLUTANT BIODEGRADATION WITH OLEOPHILIC PARTICLES AND COLLOIDS University of Idaho	Kelloog Scott	N 36 28/02/94 \$309,970	KOZUMBO 94-NL-095	
DEPSCOR 93 CORRELATION OF STANDARD BIOLOGICAL TOXICITY TEST PARAMETERS WITH BIOMARKERS Duquette Baptist University	Knight John	N 36 28/02/94 \$475,447	KOZUMBO 94-NL-096	
DEPSCOR 93 THRESHOLD AND SUPRATHRESHOLD LATERAL SPATIAL INTERACTION IN BRIGHTNESS CONTRAST & STEREOSCOPIC DEPTH PERCEPTION North Dakota State University	McCourt Mark	N 36 28/02/94 \$261,153	COLLINS 94-NL-097	
DEPSCOR 93 MECHANISMS OF CELL DEATH Idaho State University	Lai James C.K.	N 36 01/03/94 \$332,814	KOZUMBO 94-NL-098	
DEPSCOR 93 STRUCTURE OF THE MULTIZYME AMINOACYL-TRNA SYNTHETASE COMPLEX Univ of Mississippi Medical Center	Norcum Mona	N 36 01/03/94 \$469,080	HADDAD 94-NL-099	
DEPSCOR 93 AMYGDALOID CONTRIBUTIONS TO CONDITIONED AROUSAL Univ of Vermont	Kopp Bruce	N 36 01/03/94 \$233,776	HADDAD 94-NL-100	
DEPSCOR 93 FEEDBACK REGULATION OF IDENTIFIED HYPOTHALAMIC NEURONS IN STRESS RELATED HORMONES Tulane University	Tasker Jeffrey	N 36 01/03/94 \$295,024	HADDAD 94-NL-101	
DEPSCOR 93 BRAIN'S STRESS AXIS: A POSSIBLE PREDICTOR FOR THE QUALITY OF MENTAL PERFORMANCE DURING CHRONIC STRESS LSU Medical Center in New Orleans	Prasad Chandan	N 36 01/03/94 \$318,183	A HADDAD 94-NL-102	\$318,183 01/09/94 \$318,183
DEPSCOR 93 A BIOMECHANICAL INVESTIGATION OF THE PATHOPHYSIOLOGY OF JOINTAL BURST FRACTURES OF THE THORACOLUMBAR SPINE LSU Medical Center in New Orleans	Thomas Kevin	N 24 01/03/94 \$222,276	COLLINS 94-NL-103	

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DEPSCOR93 ASSESSMENT OF MUSCLE CONTRACTILE CHARACTERISTICS BY THREE-DIMENSIONAL SURFACES LSU Medical Center In New Orleans	Baratta Richard	N 36 01/03/94 \$270,048	COLLINS 94-NL-104	
DEPSCOR93 RADAR STUDIES OF VERTICAL VELOCITIES NEAR THE JETSTREAM AND IN PRECIPITATION REGIONS Clemson University	Larsen Miguel	N 36 03/03/94 \$240,400	A KROLL 94-NL-105	\$248,400 01/09/94 \$248,400
DEPSCOR93 LIDAR STUDIES OF MIDDLE ATMOSPHERE DYNAMICS Clemson University	Meriwether John	N 36 03/03/94 \$275,527	KROLL 94-NL-106	
DEPSCOR93 DOPPLER RADAR WIND ANALYSIS FOR STORM PREDICTION AND HAZARD WARNING TO PILOTS Univ of Oklahoma	Xu Qin	N 36 03/03/94 \$387,887	KROLL 94-NL-107	
DEPSCOR93 CALCULATION OF SCATTERING PARAMETERS FOR CORRECTION OF RAINFALL AND CONCENTRATION INFORMATION UNDER AEROSOL EVENTS Idaho State University	Rodriguez Rene	N 24 03/03/94 \$110,320	KROLL 94-NL-108	
DEPSCOR93 COMPUTATIONAL MODELLING OF MOTION PERCEPTION AND EQUILIBRIUM VISION Fulane University	Zimmerman George	N 24 03/03/94 \$451,313	TANGNEY 94-NL-109	
DEPSCOR93 FEATURE EXTRACTION AND ATTENTION IN VISUAL INFORMATION PROCESSING North Dakota State University	Naka William	N 36 03/03/94 \$270,618	TANGNEY 94-NL-110	
DEPSCOR93 THE ROLE OF NON-FOURIER COMPONENTS IN VISUAL PERCEPTION Univ of New Orleans	Phy James	N 36 03/03/94 \$311,646	TANGNEY 94-NL-111	
DEPSCOR93 AUDITORY DISCRIMINATION OF MULTIDIMENSIONAL CUES Univ of Oklahoma College of Medicine	Espinosa-Varas Glas	N 36 03/03/94 \$225,000	TANGNEY 94-NL-112	

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DEPSLORES ENHANCED SPECTRUM SIGNAL RECEPTION, RECOGNITION AND SPATI AL ORIENTATION IN COMPLEX VOISY ENVIRONMENTS Univ of Oklahoma, College of Medicine	Dorner Kenneth	N 36 03/03/94 \$363,463	TANGNEY 94-NL-113	
DEPSLORES AN INVESTIGATION OF THUNDERSTORM CHARGING IN FLORIDA USI NG MULTISPECTRAL STORM ELECTRIFICATION MODELS S.D. School of Aeronautics Technology	Helsdon, Jr. John	N 36 03/03/94 \$383,090	KROLL 94-NL-114	
PERIAC EVENT LOCATION USING BOTH TRAVELTIME INVERSION AND BROADBA ND DATAFORM MODELS Univ of Texas at Austin	Frohlich Cliff	N 36 04/03/94 \$213,269	A DICKINSON 94-NL-115	\$34,045 01/06/94 \$213,269
THE OBJECT DATA NAME: A COLLABORATIVE PROJECT PROPOSAL TO PROVIDE A STANDARDIZED QUALITATIVE STIMULUS SET OF COMMON OBJECTS FOR EXPER. Yale University	Tarr Michael	N 12 04/03/94 \$67,214	TANGNEY 94-NL-116	
HUMAN VISUAL-AUDITORY INTEGRATION Northumbria College	Hughes Howard	N 36 04/03/94 \$518,655	D COLLINS 94-NL-117	
EFFECTS OF ATTENTION AND PERCEPTION ON IMPLICIT AND EXPLICIT MEMOR Y Carnegie College of Columbia University	Musen Gail	N 36 07/03/94 \$203,198	TANGNEY 94-NL-118	
DEPSLORES A SMALL AUTONOMOUS AIRCRAFT The Insitu Group	McGeer Tad	N 08 07/03/94 \$78,916	A KROLL 94-NL-119	\$59,236 01/08/94 \$78,916
DEPSLORES REMOTE SENSING DETERMINATION OF ALTITUDE DENSITY PROFILES OF ATMOSPHERIC SPECIES (MAJUF AND MINJAF) ADA Associates, Inc	All Abdul Wahab	N 06 07/03/94 \$59,602	D KROLL 94-NL-120	
DEPSLORES REMOTE ATMOSPHERIC SENSOR SYSTEM Alabama Remote Sensing, Inc	Parker Thomas	N 06 07/03/94 \$44,604	D KROLL 94-NL-121	

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SP1R94 CLOUD OP AIR VELOCITY SENSOR USING DOPPLER SHIFT OF SOLAR S PECTRAL FEATURES Astrotech Corporation	Koravaar Eric	N 06 07/03/94 \$59,485	D KROLL 94-NL-122	
SP1R94 IMPROVED REMOTE SENSING SYSTEMS Tex Millimeter Wave Corporation	Zacharias David	N 06 07/03/94 \$86,328	D KROLL 94-NL-123	
SP1R94 A LOW TEMPERATURE PLASMA SIMULATOR ARC Inc	Wu Y.C.L. Susan	N 06 07/03/94 \$60,000	D KROLL 94-NL-124	
SP1R94 DEVELOPMENT OF A SOLID STATE COHERENT LIDAR BY UTILIZING SE LF-SQUEEZED LONG PULSE TAIL TECHNIQUE Laser Sense Inc	Rouillard, III Fred Peter	N 06 07/03/94 \$54,106	D KROLL 94-NL-125	
SP1R94 A NARROW BANDWIDTH, PULSED 2 MICRON LASER Laser Diagnostics	Lone Gary	N 08 07/03/94 \$79,491	D KROLL 94-NL-126	
SP1R94 DEVELOPMENT OF A NOVEL WIND LIDAR Science & Engineering Services	Lee H. Sang	N 08 07/03/94 \$79,311	A KROLL 94-NL-127	\$59,624 01/08/94 \$79,311
SP1R94 DEVELOPMENT OF AN ADVANCED DIFFERENTIAL-ABSORPTION LIDAR SY STEM FOR ATMOSPHERIC MEASUREMENT Science & Engineering Services	Lee H. Sang	N 08 07/03/94 \$79,818	D KROLL 94-NL-128	
SP1R94 MICROWAVE RADIOMETER TO PASSIVELY & REMOTELY MEASURE THE PR OFIL OF WATER VAPOR IN THE TROPOSPHERE Radiometrics Corporation	Solheim Fredrick	N 06 07/03/94 \$59,631	D KROLL 94-NL-129	
SP1R94 RADAR, A NEW TECHNOLOGY FOR HIGH PERFORMANCE METEOROLOGICA L AERIAL PHOTOGRAPHIC RADIOMETRY Radson Group	Edelsohn Charles	N 08 07/03/94 \$73,373	A KROLL 94-NL-130	\$59,633 01/08/94 \$79,373

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INTERMEDIATE LEVELS OF VISUAL PROCESSING Harvard University	Nakayama Ken	R 36 08/03/94 \$749,017	TANGNEY 94-NL-131	
THE HUMAN LUMINANCE MOTION MECHANISM IS NOT ACHROMATIC Harvard University	Stromeyer III Charles	N 36 08/03/94 \$695,000	TANGNEY 94-NL-132	
ACOUSTIC INFORMATION FOR AUDITORY MOTION Univ of Wisconsin	Jenison Rick	N 36 08/03/94 \$267,931	TANGNEY 94-NL-133	
FROM ANIMALS TO ANIMATES: THIRD INTERNATIONAL CONFERENCE ON THE SIM- ULATION OF ADAPTIVE BEHAVIOR Univ of Hawaii	Roitblat Herbert	N 12 08/03/94 \$87,159	D TANGNEY 94-NL-134	
INTERNATIONAL SYMPOSIUM ON SPECTRAL SENSING RESEARCH U.S. Army Topographic Engineering Center	Hansen John V. E.	N 12 16/03/94 \$10,000	A KROLL 94-NL-135	\$10,000 01/05/94 \$10,000
SPATIAL-FUNCTIONAL MEMORY AND LANGUAGE COMPREHENSION Univ of Wisconsin	Glenberg Arthur	N 36 17/03/94 \$483,561	TANGNEY 94-NL-136	
DEVELOPMENT AND TESTING OF PHYSICAL ALGORITHMS FOR CLOUD FORECASTING UN IN THE MESSICAL Colorado State University	Cotton William	N 36 18/03/94 \$531,568	KROLL 94-NL-137	
AN INVESTIGATION USING AN ACUFE, OPEN-LOOP ANIMAL PREPARATION THAT SIMULATES THE NEURODYNAMIC SITUATIONS SEEN UNDER ACCELERATION TO... Univ of Leeds	Hainsworth Roger	N 36 25/03/94 \$296,692	A COLLINS 94-NL-138	\$90,400 01/07/94 \$285,192
DISTANCE AND DIRECTION INFORMATION FOR TARGETED REACHING Indiana University/Irvan Hall	Bardham Geoffrey	N 36 29/03/94 \$401,830	TANGNEY 94-NL-139	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SAMPLING STRATEGY AND RECONSTRUCTION REQUIREMENTS OF NATURAL IMAGE S IN EARLY VISION Univ of Pennsylvania	Buchsbaum Gershon	R 36 29/03/94 \$374,774	TANGNEY 94-NL-140	
VISUAL ATTENTION, PERCEPTION AND MEMORY FOR OBJECTS Princeton University	Treisman Anne	R 36 29/03/94 \$598,122	TANGNEY 94-NL-141	
NEW RESEARCH IN SKY SURVEILLANCE: INTERPRETATION OF LOW-LUMINOSITY OBJECTS Univ of Arizona	Gehrels Tom	N 36 29/03/94 \$823,424	RADOSKI 94-NL-142	
THE SOLAR ACTIVITY CYCLE New Jersey Institute of Technology	Goode Phillip	R 36 29/03/94 \$499,467	RADOSKI 94-NL-143	
SITUATIONAL AWARENESS IN TERMS WITH DISTRIBUTED EXPERTISE: A MULTI -LEVEL APPROACH Michigan State University	Hollenbeck John	N 36 29/03/94 \$495,173	TANGNEY 94-NL-144	
COMPARISON IN SIMILARITY AND COGNITIVE PROCESSING Columbia University	Markman Arthur	N 36 29/03/94 \$238,799	TANGNEY 94-NL-145	
A NEW NEURAL NETWORK FOR REPRESENTING CONTEXT & SYNONYMY American University	Murkin Albert	N 36 29/03/94 \$278,393	TANGNEY 94-NL-146	
NEXT-GENERATION AUTOMATED COGNITIVE SKILL TRAINING Research Development Corporation	Leddo John	R 12 30/03/94 \$199,673	TANGNEY 94-NL-147	
A PSYCHOLOGICAL ANALYSIS OF A COGNITIVE APPROACH TO TRANSFORMATIONAL LE ADERSHIP Univ of Texas	Wofford Jerry	N 36 31/03/94 \$342,985	D TANGNEY 94-NL-148	

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INSTITUTION

DETOXICATION ENZYMES AS BIOMARKERS OF TOXIN EXPOSURE

Univ of Wisconsin

INVESTIGATOR

Stajel

Frank

TYPE/MONTHS
RECEIVED
AMOUNT

N 12
31/03/94
\$171,149

STATUS
PROGRAM MANAGER
PROPOSAL #

A
2312/AS
94-ML-149

INITIATE
START DATE
TOT AMT

\$171,149
01/07/94
\$171,149

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SAMPLING PLANS, ASYMPTOTIC RESULTS, PE SAMPLING ALGORITHMS, AND APPLICATIONS TO RANDOM PROCESSES ON THE 3-DIMENSIONAL SPHERE Univ of Missouri	Brown Jason	N 36 03/01/94 \$97,916	SJOGREN 94-NM-084	\$50,000 01/03/94 \$50,000
PARALLEL ADAPTIVE METHODS FOR MODELING NONEQUILIBRIUM FLUIDS AND PLASMAS Univ of Michigan	Gombosi Tamas	N 36 03/01/94 \$50,000	A JACOBS 94-NM-085	\$50,000 01/03/94 \$50,000
NONPARAMETRIC DATA REGRESSION AND SURFACE RECONSTRUCTION BY WAVELETS Old Dominion Univ Rsh Foundation Inc.	Li Wu	N 12 03/01/94 \$36,742	A SJOGREN 94-NM-086	\$36,742 15/05/94 \$36,742
DYNAMICS INTRINSIC COMPUTATION AND HIERARCHICAL LEARNING Univ of California, Berkeley	Glaser Donald	N 36 03/01/94 \$545,820	A JACOBS 94-NM-087	\$36,742 15/05/94 \$36,742
ITERATIVE METHODS FOR IMAGE RESTORATION Kent State University	Reichel Lothar	N 36 03/01/94 \$197,476	SJOGREN 94-NM-089	\$36,742 15/05/94 \$36,742
PARALLEL COMPUTING & PROBLEM SOLVING ENVIRONMENTS: PROVIDING MASSIVELY PARALLEL COMPUTING TO PROBLEM SOLVERS Jerkmouth College	Makdon Fillia	N 12 05/01/94 \$60,885	D JACOBS 94-NM-090	\$36,742 15/05/94 \$36,742
STATISTICAL THEORY OF RELIABILITY Univ of Missouri	Asit Asit	R 18 05/01/94 \$118,665	A SJOGREN 94-NM-091	\$36,742 15/05/94 \$36,742
NONLINEAR HYPERBOLIC CONSERVATION LAWS WITH COMBUSTION SOURCES Univ of Iowa	Li Tong	N 36 06/01/94 \$66,783	D NACHMAN 94-NM-093	\$36,742 15/05/94 \$36,742
MODELLING OF NONLINEAR STRUCTURAL DYNAMICS OF PNEUMATIC AIRCRAFT FIRES Univ of New Orleans	Hui David	N 12 06/01/94 \$25,000	A NACHMAN 94-NM-094	\$25,000 01/05/94 \$25,000

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THEORY AND NUMERICAL METHODS FOR PROBLEMS IN ESCAPE TIME CONTROL, LARGE DEVIATIONS, AND SHAPE RECONSTRUCTION Brown University	Dupuis	N 36 06/01/94 \$199,275	JACOBS 94-NM-095	
CAVITATION IN SOLIDS Southern Illinois University	Spector	N 36 06/01/94 \$66,834	NACHMAN 94-NM-096	
REASONING UNDER UNCERTAINTY IRM Almaden Research Center	Halpern	N 36 06/01/94 \$380,266	WAKSMAN 94-NM-097	
A NATIONALLY ADMINISTERED INTERSHIP PROGRAM IN MATHEMATICS American Mathematical Society	Bradley	N 18 07/01/94 \$144,952	D JACOBS 94-NM-098	
COMPUTATION, CONTROL, OPTIMIZATION AND VIBRATION ANALYSIS OF SHELL EQUATIONS Texas A and M Research Foundation	Chen	N 36 07/01/94 \$242,029	D JACOBS 94-NM-099	
THEORY AND COMPUTATION FOR WAVE PROPAGATION Univ of Minnesota	Friedman	N 12 07/01/94 \$60,000	NACHMAN 94-NM-100	
PARALLEL COMPUTATIONS Phillips Laboratory	Mussey	N 12 25/01/94 \$75,000	A JACOBS 94-NM-101	\$75,000 01/10/93 \$75,000
NEURAL INFORMATION PROCESSING SYSTEMS CONFERENCE Oregon Graduate Institute	Moody	N 12 25/01/94 \$15,000	A WAKSMAN 94-NM-102	\$15,000 01/09/94 \$15,000
EXTENSION OF "THE PHASE CONTROLLED ANTENNA" Florida Institute of Technology	Thursby	N 12 26/01/94 \$92,750	A NACHMAN 94-NM-103	\$92,750 01/05/94 \$92,750

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STATIC AND DYNAMIC BALANCE OF ROTOP STACKS Georgia Institute of Tech	Bartholdi, III John	N 07 26/01/94 \$40,000	A GLASSMAN 94-NM-104	\$40,000 01/03/94 \$40,000
WAVELETS, SIGNAL PROCESSING, & MATRIX COMPUTATION Air Force Institute of Technology	Suter Bruce	N 12 26/01/94 \$80,300	A SJOGREN 94-NM-105	\$80,300 01/03/94 \$80,300
WAVELETS, SIGNAL PROCESSING, & MATRIX COMPUTATION Air Force Institute of Technology	Suter Bruce	N 12 26/01/94 \$8,000	A SJOGREN 94-NM-106	\$8,000 01/03/94 \$8,000
OPTIMIZATION METHODS FOR DIRECT AND INVERSE PROBLEMS IN ELECTROMAGNETICS Univ of Delaware	Angell Thomas	N 36 27/01/94 \$230,456	A JACOBS 94-NM-107	\$72,353 01/07/94 \$230,456
PARALLEL MULTI-SCALE ALGORITHMS AND APPLICATIONS TO COMBUSTION AND TURBULENCE Iowa University	Karniadakis George	N 36 27/01/94 \$209,008	A JACOBS 94-NM-108	\$65,262 01/05/94 \$209,008
MATHEMATICAL THEORY OF NEURAL NETWORKS Rutgers - The State University	Sontag Eduardo	N 36 27/01/94 \$242,603	A JACOBS 94-NM-109	\$77,015 01/07/94 \$242,603
THE NORBERT WIEGAND CENT BAKY CONGRESS Michigan State University	Mandrekas V.	N 12 31/01/94 \$15,000	D SJOGREN 94-NM-110	
RESEARCH PROBLEMS IN WIRELESS COMMUNICATION NETWORKS Polytechnic University	Tassilias Leonidas	N 36 02/02/94 \$255,846	SJOGREN 94-NM-111	
A METHOD FOR FINDING DISCONTINUITIES OF FUNCTIONS FROM THE TOMOGRAPHIC DATA Kansas State University	Ramm Alexander	N 36 03/02/94 \$147,650	D NACHMAN 94-NM-112	

TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
OPTIMAL MEAN/MEDIAN FILTERING Univ of Denver	Schroeder James	N 12 03/02/94 \$44,681	SJOGREN 94-MM-113	
WAVELET BASED PROJECTION METHODS FOR NUMERICAL WAVE PROPAGATION Rice University	Symes William	N 12 03/02/94 \$100,834	JACOBS 94-MM-114	
SIGNAL PROCESSING VIA FOURIER-BESSEL METHODS Univ of Denver	Schroeder James	R 12 03/02/94 \$44,681	SJOGREN 94-MM-115	
MODEL BASED FILTER DESIGN BY MINIMIZING MEDIAN OF SQUARE OF RESIDUALS Univ of Denver	Schroeder James	N 12 03/02/94 \$44,681	SJOGREN 94-MM-116	
ITERATIVE METHODS FOR IMAGE RESTORATION Stevens Institute of Technology	Calvetti Daniela	N 36 03/02/94 \$141,856	SJOGREN 94-MM-117	
SIGNAL DISCRIMINATION AND DETECTION BY PARAMETRIC FILTERING Texas A and M Research Foundation	Li Ta-Hsin	N 36 03/02/94 \$345,876	SJOGREN 94-MM-118	
SYSTEM INTEGRATED HYBRID NEURAL NETWORKS FOR FLEXIBLE STRUCTURE CONTROL Stanford University	Cannon Robert	N 12 03/02/94 \$168,619	JACOBS 94-MM-119	
(SMIR) IMPLICIT HUMAN CONTROL Xerox	Fraser Kirk	N 06 08/02/94 \$60,000	D JACOBS 94-MM-120	
(SMIR) LOW-COST OPEN ARCHITECTURE ROBOT CONTROLLERS Trellis Software & Controls, Inc	Gerstenberger Michael	N 04 08/02/94 \$59,933	D JACOBS 94-MM-121	

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(S81R94) LOW COST ROBOTICS RESEARCH PLATFORM Accu-fab Systems of California, Inc	Voit	N 06 08/02/94 \$99,400	D JACOBS 94-NM-122	
(S81R94) LOW COST, HIGH STRENGTH, HIGH PRECISION ROBOT Competitive Solicitation	Waynes	N 06 08/02/94 \$59,964	D JACOBS 94-NM-123	
(S31R94) LEAD THROUGH PROGRAMMING FOR A MODULAR LOW COST MUSCLE-DRIVEN ROBOTIC SYSTEM Fluidic Motion Corp	Ralston	N 06 08/02/94 \$55,000	D JACOBS 94-NM-124	
(S81P94) LOW-COST ROBOTICS RESEARCH PLATFORM Angelus Research	Golding	N 06 08/02/94 \$66,200	D JACOBS 94-NM-125	
(S81R94) LOW-COST TOOLKIT FOR ROBOTICS RESEARCH Transitions Research Corp	Evans, Jr.	N 06 08/02/94 \$99,750	D JACOBS 94-NM-126	
(S81P94) INTEGRATED LOW-COST ROBOTICS PLATFORM American JNC Corporation	Lin	N 06 08/02/94 \$60,000	D JACOBS 94-NM-127	
(S81R94) LOW-COST ROBOTICS RESEARCH PLATFORM Parrett Technology Inc	Townsend	N 06 08/02/94 \$559,989	D JACOBS 94-NM-128	
(S81R94) SIMPLIFIED OPTIMIZATION LANGUAGE INTERFACE Smiles & Associates Inc	Tata	N 06 08/02/94 \$59,966	D GLASSMAN 94-NM-129	
(S81P94) INNOVATIVE LOW COST ANTHROPOMORPHIC RESEARCH ROBOTS IS Robotics Inc	Ankle	N 06 08/02/94 \$58,629	D JACOBS 94-NM-130	

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(SRI94) USER-FRIENDLY MICROCOMPUTER INTERFACE WITH OPTIMIZATION LANGUAGES Integral Solution Corporation	Fairl Colin	N 05 08/02/94 \$54,240	D GLASSMAN 94-NM-131	
(SRI94) OPEN ARCHITECTURE ROBOTICS RESEARCH & DEVELOPMENT PLATFORM Automatix Inc	Katz Joel	N 06 08/02/94 \$59,998	D JACOBS 94-NM-132	
(SRI94) USER-FRIENDLY MICROCOMPUTER INTERFACE WITH OPTIMIZATION LANGUAGES Prinzel Solutions, Inc.	Savage Sam	N 09 08/02/94 \$79,502	A GLASSMAN 94-NM-133	\$59,690 01/08/94 \$79,502
(SRI94) DESIGN OF A LOW COST, HIGH PERFORMANCE ROBOTIC ARM USING SHAPE MEMORY ALLOY ACTUATOR AT Engineering	Nguyen Thuy	N 06 08/02/94 \$59,994	D JACOBS 94-NM-134	
(SRI94) INTERACTIVE MATHEMATICAL OPTIMIZATION Elton R. Shamblen	Shamblen Elton	N 06 08/02/94 \$57,743	D GLASSMAN 94-NM-135	
(SRI94) GENERAL PURPOSE ROBOTICS RESEARCH DEVICE FOR UNIVERSITIES Orange County Robotics	Martin Bryan	N 06 08/02/94 \$593,165	D JACOBS 94-NM-136	
(SRI94) MULTIDIMENSIONAL LOGISTICS NETWORK MODELING USING MULTIDIMENSIONAL SPREADSHEET & MATHEMATICAL PROGRAMMING SOFTWARE CAPS Logistics, Inc	Nulty William	N 09 08/02/94 \$79,743	A GLASSMAN 94-NM-137	\$59,864 01/08/94 \$79,743
(SRI94) HIGHLY CONFIGURABLE PLATFORM TECHNOLOGY FOR WITHROFOMORPHIC ROBOT RESEARCH Macleod Technologies, Inc	Macleod Edward	N 06 08/02/94 \$59,540	D JACOBS 94-NM-138	
(SRI94) THE KINTECH MODEL TRANSLATION BETWEEN SPREADSHEETS AND OPTIMIZATION LANGUAGES Kintech Research Inc	Rivera Romeo	N 06 08/02/94 \$59,913	D GLASSMAN 94-NM-139	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(S11234) LOW COST PLATFORM FOR RESEARCH INTO ANTHROPOMORPHIC ROBOTICS Visual Computing Systems Corporation	Stahura	N 06 08/02/94 \$59,978	D JACOBS 94-NM-140	
(S11234) LOW COST PLATFORM RESEARCH PLATFORM		N 06 09/02/94 \$60,000	D JACOBS 94-NM-141	
CITA (Christian International Tech Advan	Morris	N 06 08/02/94 \$69,745	D JACOBS 94-NM-142	
(S11234) LOW-COST ROBOTICS RESEARCH PLATFORM Synthetic Technical Services, Inc	Shi	N 06 10/02/94 \$30,000	A SJOGREN 94-NM-143	\$30,000 01/05/94 \$30,000
MEASURING APPLICATIONS OF PROBABILITY Univ of Minnesota	Friedman	N 36 10/02/94 \$391,917	A LUGENBUHL 94-NM-144	\$121,792 01/06/94 \$391,917
PARALLEL PROGRAM ARCHITECTURES California Institute of Technology	Chandy	N 12 14/02/94 \$92,230	GLASSMAN 94-NM-145	
NEW ALGORITHMIC DEVELOPMENTS IN NONLINEAR OPTIMIZATION George Washington University	Fiacco	N 12 17/02/94 \$24,200	A NACHMAN 94-NM-146	\$24,200 01/03/94 \$24,200
ADAPTIVE-DE-VALUATION IN ADAPTIVE OPTICS SYSTEMS, AND AERO-OPTICAL EFFECTS ON THERMAL FLUX LAYERS Air Force Institute of Technology	Rajgenmann	N 12 17/02/94 \$16,850	A WAKSMAN 94-NM-147	\$16,850 01/03/94 \$16,850
A FULLY INTEGRATED PROBABILISTIC FRAMEWORK FOR EXPERT SYSTEMS DEVELOPMENT Air Force Institute of Technology	Santos, Jr.	N 04 22/02/94 \$40,011	A NACHMAN 94-NM-148	\$40,011 01/06/94 \$40,011
WEATHER-ORIENTED IMAGE CONSTRUCTION AND AERO-OPTIC METROLOGY IN TURBULENCE Logitech Inc	Osher	N 04 22/02/94 \$40,011	A NACHMAN 94-NM-148	\$40,011 01/06/94 \$40,011

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CONTROL OF NONLINEAR SYSTEMS Butlers - The State University	Sontag	N 36 28/02/94 \$292,951	JACOBS 94-NM-149	
INTEGRATED RECOVERY MANAGEMENT POLICIES FOR REAL-TIME SYSTEMS Univ of Massachusetts	Krishna	N 36 28/02/94 \$312,266	LUGINBUHL 94-NM-150	
HIGH PERFORMANCE PARALLEL/DISTRIBUTED SCIENTIFIC COMPUTING AND VISUALIZATION Univ of Texas	Zhang	N 36 28/02/94 \$429,125	GLASSMAN 94-NM-151	
CORE SUPPORT FOR THE BOARD IN MATHEMATICAL SCIENCES National Science Foundation	McDonald	N 12 28/02/94 \$45,600	A HOLLAND 94-NM-152	\$50,040 01/06/94 \$50,040
PROBABILISTIC PLANNING, INFORMATION GATHERING, AND CONTINGENT EXECUTION Univ of Washington	Hanks	N 36 28/02/94 \$379,968	A MARKSMAN 94-NM-153	\$88,000 01/08/94 \$228,982
DYNAMIC REASONING WITH QUALIFIED SYLLOGISMS Florida State University	Schwartz	N 36 01/03/94 \$200,015	MARKSMAN 94-NM-154	
OPTIMIZATION OF COMPOSITE PANELS BY GENETIC ALGORITHMS WITH MEMORY ON PARALLEL COMPUTERS Virginia Polytechnic Inst & State Univ	Hafka	N 24 01/03/94 \$116,242	GLASSMAN 94-NM-155	
METHODS FOR DESIGNING FAULT-TOLERANT ASYNCHRONOUS SYSTEMS U.S. Air Force Institute of Technology	Kedem	N 36 01/03/94 \$354,319	LUGINBUHL 94-NM-156	
COMPRESSIVE NONDESTRUCTIVE EVALUATION OF FORMABILITY PARAMETERS ON ALUMINUM ALLOYS Univ of Kentucky Research Foundation	Mun	N 36 03/03/94 \$72,000	A NACHMAN 94-NM-157	\$72,000 15/09/94 \$72,000

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CEPSC0933 MODELING & CONTROL OF UNCERTAIN SYSTEMS WITH APPLICATIONS TO AIR FORCE PROBLEMS Louisiana State University	Gu Guoxiang	N 36 03/03/94 \$149,050	A JACOBS 94-NM-158	\$69,355 01/09/94 \$69,355
CEPSC0933 COLLABORATIVE RESEARCH ON ARTIFICIAL INTELLIGENCE AIDED ROUTING AND SCHEDULING FOR AIR TRANSPORT Washington University	Rodin Ervin	N 35 03/03/94 \$1,010,564	GLASSMAN 94-NM-159	
CEPSC0933 ADAPTIVE SYSTEM IDENTIFICATION FOR FAULT TOLERANT CONT ROL USING MARK FUNCTIONS Univ of Missouri	Salakhishnan S.	N 36 03/03/94 \$221,361	JACOBS 94-NM-160	
CEPSC0933 ANALYTICAL & COMPUTATIONAL METHODS FOR NONLINEAR FEEDBACK DESIGN Washington University	Byrnes C.	N 36 03/03/94 \$717,053	A JACOBS 94-NM-161	\$220,570 01/09/94 \$220,570
CEPSC0933 SOLUTION OF LARGE NONLINEAR PROBLEMS BY THE P- AND H2-VERSIONS OF THE FINITE ELEMENT METHOD McDonnell Aircraft Company	Katz I. Norman	N 36 03/03/94 \$710,599	JACOBS 94-NM-162	
CEPSC0933 DISTRIBUTED OPTIMIZATION FOR CUSTOMIZED AIRCRAFT FLEET SCHEDULING North Dakota State University	Myzard Kendall	N 36 03/03/94 \$332,487	A GLASSMAN 94-NM-163	\$166,243 01/08/94 \$166,243
CEPSC0933 A NEW APPROACH TO THE ASYMPTOTIC DESCRIPTION OF DISPERSIVE PULSE PROPAGATION Univ of Vermont	Doughston Kurt	N 36 03/03/94 \$144,500	A NACHMAN 94-NM-164	\$144,500 01/09/94 \$144,500
CEPSC0933 APPLICATIONS OF PATTERN THEORY Illinois State University	Walzer James	N 36 03/03/94 \$134,465	WAKSMAN 94-NM-165	
CEPSC0933 THEORETICAL & COMPUTATIONAL NONDESTRUCTIVE EVALUATION USING WAVYLETS Univ of Missouri	D'Fazio Brian	N 26 03/03/94 \$278,172	NACHMAN 94-NM-166	

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TECHNIQUES AND APPLICATIONS OF MULTIVARIABLE MIXED OBJECTIVE OPTIMAL CONTROL Air Force Institute of Technology	Ridgely	N 12 04/03/94 \$32,300	A JACOBS 94-NM-167	\$32,300 01/04/94 \$32,300
CONTROL OF LINEAR MULTIVARIABLE SYSTEMS SUBJECT TO INPUT SATURATION Washington State University	Sobari	N 24 09/03/94 \$75,860	JACOBS 94-NM-168	
NONLINEAR MECHANICAL SYSTEMS Princeton University	Holmes	N 36 10/03/94 \$735,829	NACHMAN 94-NM-169	
A SUMMER WORKSHOP IN ADVANCED BAYESIAN MODELLING Oregon State University	D'Ambrosio	N 06 14/03/94 \$30,000	A WAKSMAN 94-NM-170	\$30,000 01/07/94 \$30,000
MULTI-RESOLUTION METHODS IN SYSTEMS SIGNALS AND IMAGES Massachusetts Institute of Technology	Willsky	N 36 14/03/94 \$464,507	JACOBS 94-NM-171	
ROBUST IDENTIFICATION AND CONTROL Massachusetts Institute of Technology	Dahleh	N 36 17/03/94 \$456,211	JACOBS 94-NM-172	
ROBUST ADVANCED FEEDBACK CONTROL Univ of Michigan	Bernstein	N 36 17/03/94 \$400,993	JACOBS 94-NM-173	
FUNCTION OF THE STATISTICAL THEORY OF DIFFRACTION... Phonics Research and Development Inc	Castaneda	N 48 18/03/94 \$979,800	NACHMAN 94-NM-174	
SOLVING OPTIMIZATION PROBLEMS BY IMPLEMENTING NEURAL NETWORKS ON PARALLEL PROCESSORS State Western Reserve University	Takefuji	N 24 21/03/94 \$183,597	GLASSMAN 94-NM-175	

REPORT DATE 06/15/74

PROPOSAL STATUS REPORT (1 JAN 94 - 31 MAR 94)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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TITLE
TITLE (CONT.)
INSTITUTION

INVESTIGATOR

PROGRAMMABLE BLIND ADAPTIVE MULTIVARIATE FILTERING

Univ of California, Davis

Gardner

William

N 36
29/03/94
\$366,579

SJOGREN
94-NM-176

TYPE/MONTHS
RECEIVED
AMOUNT

STATUS
PROGRAM MANAGER
PROPOSAL #

INITIATE
START DATE
TOT AMT

STATISTICAL INFERENCE PROBLEMS IN DATA FUSION AND

SEMI-PARAMETRIC REGRESSION

Univ of Maryland, Baltimore County

Mathew

Thomas

R 36
31/03/94
\$187,849

SJOGREN
94-NM-177

REPORT DATE 05/15/94

PROPOSAL STATUS REPORT (1 JAN 94 - 31 MAR 94)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
EXTERNAL LAB PROPOSALS

PAGE 1

TITLE
TITLE (CONT.)
INSTITUTION

ANALYTICAL AND TECHNICAL SUPPORT

INVESTIGATOR

TYPE/MONTHS
RECEIVED
AMOUNT
N 22
30/03/94
\$6,000,000

STATUS
PROGRAM MANAGER
PROPOSAL #
EARL SMITH
94-EX-001

INITIATE
START DATE
TOT AMT
\$2,100,000
01/04/94
\$6,000,000